

# Permit to Operate

**FACILITY:** C-1121

**EXPIRATION DATE:** 12/31/200

**LEGAL OWNER OR OPERATOR:** AERA ENERGY LLC

**MAILING ADDRESS:** 1000 MING AVE  
BAKERSFIELD, CA 93389-1164

**FACILITY LOCATION:** HEAVY OIL PRODUCTION  
FRESNO COUNTY, CA

**FACILITY DESCRIPTION:** PETROLEUM PRODUCTION

The Facility to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

The Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

**DAVID L. CROW**

Executive Director / APCO

**Seyed Sadredin**

Director of Permit Services

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-0-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

## **PERMIT UNIT REQUIREMENTS**

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)], [Federally Enforceable Through Title V]
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)], [Federally Enforceable Through Title V]
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0], [Federally Enforceable Through Title V]
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (Amended September 17, 1998). [District Rules 2010, 3.0 and 4.0; and 2020], [Federally Enforceable Through Title V]
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1], [Federally Enforceable Through Title V]
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031], [Federally Enforceable Through Title V]
7. Every application for a permit required under Rule 2010 (12/17/92) (Permits Required) shall be filed in a manner and form prescribed by the District. [District Rule 2040], [Federally Enforceable Through Title V]
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.5.1], [Federally Enforceable Through Title V]
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.6.1], [Federally Enforceable Through Title V]
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/15/95) [District Rules 2520, 9.6.2 and 1100, 7.0], [Federally Enforceable Through Title V]
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.8], [Federally Enforceable Through Title V]

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13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.9.2], [Federally Enforceable Through Title V]
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.9.3], [Federally Enforceable Through Title V]
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.9.4], [Federally Enforceable Through Title V]
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.9.5], [Federally Enforceable Through Title V]
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.10], [Federally Enforceable Through Title V]
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.14.2.1], [Federally Enforceable Through Title V]
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.14.2.2], [Federally Enforceable Through Title V]
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.14.2.3], [Federally Enforceable Through Title V]
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.14.2.4], [Federally Enforceable Through Title V]
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (12/17/92), by using EPA method 9. If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
23. No person shall supply, sell, solicit or apply any architectural coating, except specialty coatings, that contains more than 250 grams of VOC per liter of coating (less water and exempt compounds, and excluding any colorant added to tint bases), or manufacture, blend, or repackage such coating with more than 250 grams of VOC per liter (less water and exempt compounds, and excluding any colorant added to tint bases) for use within the District. [District Rule 4601, 5.1], [Federally Enforceable Through Title V]
24. Specialty Coating Limitations: No person shall apply, sell, solicit, or offer for sale any architectural coating listed in the Tables of Standards (District Rule 4601, Table 1 and Table 2), nor manufacture, blend, or repackage such coating for use within the District, which contains VOCs in excess of the specified limits after the corresponding date listed in Table 1 (grams of VOC per liter of coating as applied less water and exempt compounds, excluding any colorant added to tint bases) and in Table 2 (grams of VOC per liter of material), except as provided in Section 5.3 of Rule 4601. [District Rule 4601, 5.2], [Federally Enforceable Through Title V]
25. All VOC-containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired. [District Rule 4601, 5.4], [Federally Enforceable Through Title V]
26. A person shall not use VOCs for the cleanup of spray equipment unless equipment for collection of the cleaning compounds and minimizing its evaporation to the atmosphere is used. [District Rule 4601, 5.5], [Federally Enforceable Through Title V]
27. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.2 (12/17/92). [District Rule 4601, 6.1 and 6.2], [Federally Enforceable Through Title V]
28. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.14.1 and 10.0], [Federally Enforceable Through Title V]
29. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F], [Federally Enforceable Through Title V]
30. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B], [Federally Enforceable Through Title V]

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31. Disturbances of soil related to any construction, demolition, excavation, extraction, or water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD District Rule 8020 (4/25/96) unless specifically exempted under section 4 of Rule 8020 (4/25/96). [District Rule 8020], [Federally Enforceable Through Title V]
32. Outdoor handling and storage of any bulk material which emits dust shall comply with the requirements of SJVUAPCD Rule 8030 (4/25/96), unless specifically exempted under section 4 of Rule 8030 (4/25/96). [District Rule 8030], [Federally Enforceable Through Title V]
33. Any paved road over 3 miles in length, and any unpaved roads over half a mile in length, constructed after December 10, 1993 shall use the design criteria and dust control measures of, and comply with the administrative requirements of, SJVUAPCD Rule 8060 (4/25/96) unless specifically exempted under section 4 of Rule 8060 (4/25/96). [District Rule 8060], [Federally Enforceable Through Title V]
34. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M], [Federally Enforceable Through Title V]
35. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.17], [Federally Enforceable Through Title V]
36. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2], [Federally Enforceable Through Title V]
37. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permit shall apply. [District Rule 2520, 9.1.1], [Federally Enforceable Through Title V]
38. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (12/17/92); 4601, sections 5.1, 5.2, 5.4, 5.5, 6.1, and 6.2 (9/17/97); 8020 (4/25/96); 8030 (4/25/96); 8060 (4/25/96); A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68], [Federally Enforceable Through Title V]
42. On December 31, 2001, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-3-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG-50: 18.5 MMBTU/HR STRUTHERS-WELLS STEAM GENERATOR, STATE BOILER SN 27585-66 WITH A NORTH AMERICAN MODEL #6131 FA OIL/GAS BURNER AND HAGUE OXYGEN CONTROLLER.

**PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  2. This equipment may be operated at the following sites: Sec. 14, T19S/R15E; Sec. 15, T19S/R15E; Sec. 27, T19S/R15E; Sec. 30, T19S/R15E; and Sec 32, T19S/R15E. Other locations shall require specific District permits. [ ]
  3. Fuel consumption shall not exceed 3,520 gal/day of fuel oil nor 684,000 scf/day of natural gas. [ ]
  4. Sulfur content of the fuel oil shall not exceed 0.6% by weight. [ ]
  5. Permittee shall record fuel consumption by type, and the sulfur content of the fuel oil. Records shall be retained for at least two years and provided to the District upon request. [ ]
  6. Emissions shall not exceed the following limits: NO2 - 195.4 lb/day, SO2 - 331.6 lb/day, CO - 17.6 lb/day, PM10 - 31.7 lb/day, and VOC (NMHC) - 1.0 lb/day. [ ]
  7. Emissions shall not exceed the following limits: NO2 - 8.14 lb/hr, SO2 - 13.8 lb/hr, CO - 0.73 lb/hr, PM10 - 1.32 lb/hr, nor VOC(NMHC) - 0.04 lb/hr. [ ]

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**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-4-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG-48, 22 MMBTU/HR STRUTHER-WELLS STEAM GENERATOR, MODEL 0H-18, SN 68426-48, WITH A NORTH AMERICAN MODEL #613 FA OIL/GAS BURNER AND HAGUE OXYGEN CONTROLLER.

**PERMIT UNIT REQUIREMENTS**

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1. This equipment shall not be operated for any reason until necessary retrofits are made to comply with the applicable requirements of District Rule 4305. [District Rule 4305]
  2. Emissions shall not exceed 30 ppm NOx (0.036 lb-NOx/MMBtu) @ 3% O2, nor 400 ppm CO @ 3% O2. [District Rule 4305]
  3. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in condition 4 below. [District Rule 2201]
  4. The fuel supply line shall be physically disconnected from the unit. [District Rule 4305]
  5. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 1081]
  6. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
  7. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  8. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
  9. This equipment may be operated at the following sites: Sec. 10, T19S/R15E; Sec. 15, T19S/R15E; Sec. 29, T19S/R15E; Sec. 30, T19S/R15E; and Sec 32, T19S/R15E. Other locations shall require specific District permits. [District Rule 2201]
  10. This unit shall be fired on Public Utility Commission (PUC) regulated natural gas only. [District NSR Rule]
  11. Emissions shall not exceed 0.033 lb-CO/MMBtu, 0.014 lb-PM10/MMBtu, 0.002 lb-VOC/MMBtu, or 0.001 lb-SOx/MMBtu. [District Rule 2201]
  12. Permittee shall comply with applicable Rule 4305 (Boilers, Steam Generators, and Process Heaters) requirements. [District Rule 4305]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-5-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG-28: 18 MMBTU/HR STRUTHERS-WELLS STEAM GENERATOR, MODEL OH-18, SN 61J672-28HP2, WITH A NORTH AMERICAN MODEL 5131, 140 GAL/HR OIL BURNER WITH A HAGUE OXYGEN CONTROLLER P4017.

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. Fuel consumption shall not exceed 2,880 gal/day of fuel oil. [ ]
3. Sulfur content of the fuel oil shall not exceed 0.6% by weight. [ ]
4. Permittee shall record fuel consumption by type, and the sulfur content of the fuel oil. Records shall be retained for at least two years and provided to the District upon request. [ ]
5. Emissions shall not exceed 0.37 lb of NO<sub>x</sub> (as NO<sub>2</sub>) per MMBtu/hr. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-6-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG 49 CP-17: 20 MMBTU/HR THERMOTICS STEAM GENERATOR, MODEL SG 20 NOS 10, SN 77917, WITH A NORTH AMERICAN MODLE 5135-FA-CR 50 GAL/HR OIL BURNER WITH A HAGUE OXSEN OXYGEN CONTROLLER P4017 , MODIFIED BURNER FOR GAS 6131FA.

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. Sulfur content of the fuel oil shall not exceed 0.6% by weight. [ ]
3. Fuel consumption shall not exceed 3,500 gal/day of fuel oil nor 684,000 scf/day of natural gas. [ ]
4. Permittee shall record fuel consumption by type, and the sulfur content of the fuel oil. Records shall be retained for at least two years and provided to the District upon request. [ ]
5. Emissions shall not exceed the following limits: NO<sub>2</sub> - 0.37 lb/MMBtu/hr when firing on oil, and CO - 0.023 lb/MMBtu/hr (using a 1-hour averaging time) when firing on natural gas. [ ]



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**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-7-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG-68: 22 MMBTUH/HR STRUTHER-WELLS STEAM GENERATOR, STATE BOILER SN 27576-66, WITH NORTH AMERICAN MODLE #6131 FA OIL/GAS BURNER AND HAGUE OXSEN OXYGEN CONTROLLER MODEL P-4017.

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  2. This equipment may be operated at the following sites: Sec. 14, T19S/R15E; Sec. 15, T19S/R15E; Sec. 29, T19S/R15E; Sec. 30, T19S/R15E; and Sec 32, T19S/R15E. Other locations shall require specific District permits. [ ]
  3. Fuel consumption shall not exceed 3,520 gal/day of fuel oil nor 684,000 scf/day of natural gas. Total input shall not exceed 164,000 MMBtu/year from both fuels. [ ]
  4. Sulfur content of the fuel oil shall not exceed 0.6% by weight. [ ]
  5. Permittee shall record fuel consumption by type, and the sulfur content of the fuel oil. Records shall be retained for at least two years and provided to the District upon request. [ ]
  6. Emissions shall not exceed the following limits: NOx - 8.1 lb/hr, SOx - 14.0 lb/hr, CO - 0.7 lb/hr, PM10 - 1.3 lb/hr, and VOC - 0.4 lb/hr. [ ]

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**San Joaquin Valley**  
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**PERMIT UNIT:** C-1121-8-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG-41: 22.0 MMBTU/HR STRUTHERS-WELLS STEAM GENERATOR, MODEL OH22, SN 6451183141HP9, WITH A NORTH AMERICAN MODEL 6131 FA OIL/GAS BURNER AND A HAGUE OXSEN OXYGEN CONTROLLER MODEL P4017.

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  2. This equipment may be operated at the following sites: Sec. 12, T19S/R15E; Sec. 15, T19S/R15E; Sec. 29, T19S/R15E; Sec. 32, T19S/R15E; and Sec 36, T19S/R15E. Other locations shall require specific District permits. [ ]
  3. Fuel consumption shall not exceed 3,520 gal/day of fuel oil nor 684,000 scf/day of natural gas. Total input shall not exceed 164,000 MMBtu/year from both fuels. [ ]
  4. Sulfur content of the fuel oil shall not exceed 0.6% by weight. [ ]
  5. Permittee shall record fuel consumption by type, and the sulfur content of the fuel oil. Records shall be retained for at least two years and provided to the District upon request. [ ]
  6. Emissions shall not exceed the following limits: NO<sub>2</sub> - 8.1 lb/hour, SO<sub>2</sub> - 14.0 lb/hour, CO - 0.7 lb/hour, PM<sub>10</sub> - 1.3 lb/hour, and VOC - 0.2 lb/hour. [ ]

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**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-9-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG C-1, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, GAS FIRED, WITH NORTH AMERICAN MODEL 6131G LONOX BURNER AND FLUE GAS RECIRCULATION

**PERMIT UNIT REQUIREMENTS**

1. This unit shall be fired on Public Utility Commission (PUC) quality natural gas only. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
3. Steam generator shall be equipped with O2 controller and excess O2 shall be maintained between 0.5 and 3.0%. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
4. Emissions shall not exceed: PM10: 0.014 lb/MMBtu, calculated to 12% CO2; SOx (calculated as SO2): 0.001 lb/MMBtu; NOx (calculated as NO2 @ 3% O2): 0.036 lb/MMBtu or 30 ppmv; VOC: 0.003 lb/MMBtu; or CO: 43 ppmv @ 3% O2. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and Rule 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
5. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
6. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
7. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
8. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NOx and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or the unit is not shutdown within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District NSR Rule and Rule 4305, 5.4.3], [Federally Enforceable Through Title V]
11. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
12. Source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
13. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
14. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
15. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]

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16. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6, ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
21. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rules 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
24. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. NO<sub>x</sub>, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO<sub>x</sub> and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NO<sub>x</sub> emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NO<sub>x</sub> emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
28. The following conditions must be met for representative unit(s) to be used to test for NO<sub>x</sub> limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
29. All units in a group for which representative units are source for NO<sub>x</sub> emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]

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30. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
31. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-10-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG C-2, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, GAS FIRED, WITH NORTH AMERICAN MODEL 6131G LOW NOX BURNER

**PERMIT UNIT REQUIREMENTS**

1. This unit shall be fired on Public Utility Commission (PUC) quality natural gas only. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
3. Steam generator shall be equipped with O2 controller and excess O2 shall be maintained between 0.5 and 3.0%. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
4. Emissions shall not exceed: 0.014 lb-PM10/MMBtu calculated at 12% CO2; 0.001 lb-SOx/MMBtu (calculated as SO2); 0.036 lb-NOx/MMBtu @ 3% O2 (calculated as NO2) or 30 ppmv @ 3% O2; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O2. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and Rule 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
5. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
6. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
7. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
8. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NOx and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or the unit is not shut down within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
12. Source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
13. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
14. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
15. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]

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16. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
21. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
24. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. NOx, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
28. The following conditions must be met for representative unit(s) to be used to test for NOx limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
29. All units in a group for which representative units are source for NOx emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]

## Initial TV Permit

30. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
31. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-11-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

DORMANT SG C-3, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, GAS FIRED, WITH NORTH AMERICAN MODEL 6131G LONOX BURNER

**PERMIT UNIT REQUIREMENTS**

1. This unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520 section 9.0 for this permit unit. [District Rule 2520, Section 9.0], [Federally Enforceable Through Title V]
2. This equipment shall not be operated for any reason until necessary retrofits are made to comply with the applicable requirements of District Rule 4305. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
3. Emissions from this unit shall not exceed 30 ppm NOx (0.036 lb-NOx/MMBtu) @ 3% O<sub>2</sub>, nor 400 ppm CO @ 3% O<sub>2</sub> when fired on natural gas fuel. [District NSR Rule and Rule 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
4. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in condition 5 below. [District NSR Rule], [Federally Enforceable Through Title V]
5. All fuel supply lines shall be physically disconnected from the unit. [District Rule 2080], [Federally Enforceable Through Title V]
6. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 1081], [Federally Enforceable Through Title V]
7. Fuel consumption shall not exceed 1,430,000 scf/day of PUC quality natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
8. Emissions from this unit shall not exceed 0.061 lb-NOx/MMBtu @ 3% O<sub>2</sub> calculated as NO<sub>2</sub>; 0.08 lb-SOx/MMBtu calculated as SO<sub>2</sub>; 0.032 lb-CO/MMBtu @ 3% O<sub>2</sub>; 0.057 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> nor 0.008 lb-VOC/MMBtu. [District NSR Rule, Rule 4201, 5.1 and Rule 4301, 5.1, 5.2], [Federally Enforceable Through Title V]
9. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
10. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]

## Initial TV Permit

15. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
17. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
18. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
19. NOx, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
22. The following conditions must be met for representative unit(s) to be used to test for NOx limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
23. All units in a group for which representative units are source for NOx emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
24. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
25. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-12-4

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

DORMANT SG C-4, 62.5 MMBTU/HR THERMOTICS GAS FIRED STEAM GENERATOR WITH NORTH AMERICAN MODEL 6131G LONOX BURNER

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. This equipment shall not be operated for any reason until necessary retrofits are made to comply with the applicable requirements of District Rule 4305 [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
3. No modification to this unit shall be performed without an Authority to Construct for that modification, except for changes specified in condition 4 below. [District NSR Rule], [Federally Enforceable Through Title V]
4. All fuel supply lines shall be physically disconnected from the unit. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
5. Emissions from this unit shall not exceed 30 ppm NO<sub>x</sub>, (0.036 lb-NO<sub>x</sub>/MMBtu @ 3% O<sub>2</sub>), nor 400 ppm CO @ 3% O<sub>2</sub> when fired on natural gas fuel. [District NSR Rule and Rule 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
6. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District NSR Rule], [Federally Enforceable Through Title V]
7. Fuel consumption shall not exceed 1,430,000 scf/day of PUC Quality natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
8. Combined exhaust gases from the two CVR (C-1121-38 and -39) and the section 32 TVR systems shall not exceed 675,000 scf/day. [District NSR Rule], [Federally Enforceable Through Title V]
9. Emissions shall not exceed 0.061 lb-NO<sub>x</sub>/MMBtu @ 3% O<sub>2</sub> calculated as NO<sub>2</sub>; 0.08 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>; 0.032 lb-CO/MMBtu @ 3% O<sub>2</sub>; 0.057 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> nor 0.008 lb-VOC/MMBtu. [District NSR Rule, Rule 4201, 5.1 and Rule 4301, 5.1, 5.2], [Federally Enforceable Through Title V]
10. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
11. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]

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16. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
17. NO<sub>x</sub> and CO emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO<sub>x</sub> and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NO<sub>x</sub> emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NO<sub>x</sub> emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
20. The following conditions must be met for representative unit(s) to be used to test for NO<sub>x</sub> limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
21. All units in a group for which representative units are source for NO<sub>x</sub> emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
22. All units in a group for which representative units are source tested to for NO<sub>x</sub> emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
23. The number of representative units source tested for NO<sub>x</sub> emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-13-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG N-5, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, GAS FIRED, WITH NORTH AMERICAN MODEL 6131G LONOX BURNER WITH FLUE GAS RECIRCULATION

**PERMIT UNIT REQUIREMENTS**

1. This unit shall be fired on Public Utility Commission (PUC) quality natural gas only. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
3. Steam generator shall be equipped with O2 controller and excess O2 shall be maintained between 0.5 and 3.0%. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
4. Emissions shall not exceed: 0.014 lb-PM10/MMBtu calculated at 12% CO2; 0.001 lb-SOx/MMBtu (calculated as SO2); 0.036 lb-NOx/MMBtu @ 3% O2 (calculated as NO2) or 30 ppmv @ 3% O2; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O2. [District NSR Rule, Rule 4201, 5.1, Rule 4301, 5.1, 5.2 and Rule 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
5. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
6. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
7. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
8. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NOx and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or shut down within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
12. Source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
13. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
14. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
15. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]

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16. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
21. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
24. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. NOx, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
28. The following conditions must be met for representative unit(s) to be used to test for NOx limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
29. All units in a group for which representative units are source for NOx emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]

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30. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
31. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-14-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG N-6, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, GAS FIRED, WITH NORTH AMERICAN MODEL 6131G LONOX BURNER WITH FLUE GAS RECIRCULATION

**PERMIT UNIT REQUIREMENTS**

1. This unit shall be fired on Public Utility Commission (PUC) quality natural gas only. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
3. Steam generator shall be equipped with O2 controller and excess O2 shall be maintained between 0.5 and 3.0%. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
4. Emissions shall not exceed: 0.014 lb-PM10/MMBtu calculated at 12% CO2; 0.001 lb-SOx/MMBtu (calculated as SO2); 0.036 lb-NOx/MMBtu @ 3% O2 (calculated as NO2) or 30 ppmv @ 3% O2; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O2. [District NSR Rule, Rule 4201, 5.1, Rule 4301, 5.1, 5.2 and Rule 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
5. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
6. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
7. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
8. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NOx and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or shut down within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
12. Source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
13. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
14. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
15. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]



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16. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
21. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
24. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. NO<sub>x</sub>, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NO<sub>x</sub> emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NO<sub>x</sub> emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
28. The following conditions must be met for representative unit(s) to be used to test for NO<sub>x</sub> limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
29. All units in a group for which representative units are source for NO<sub>x</sub> emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]

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30. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
31. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-15-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG N-7, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, GAS FIRED, WITH NORTH AMERICAN MODEL 6131G LONOX BURNER WITH FLUE GAS RECIRCULATION

**PERMIT UNIT REQUIREMENTS**

1. This unit shall be fired on Public Utility Commission (PUC) quality natural gas only. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
3. Steam generator shall be equipped with O2 controller and excess O2 shall be maintained between 0.5 and 3.0%. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
4. Emissions shall not exceed: 0.014 lb-PM10/MMBtu calculated at 12% CO2; 0.001 lb-SOx/MMBtu (calculated as SO2); 0.036 lb-NOx/MMBtu @ 3% O2 (calculated as NO2) or 30 ppmv @ 3% O2; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O2. [District NSR Rule, Rule 4201, 5.1, Rule 4301, 5.1, 5.2 and Rule 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
5. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
6. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
7. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
8. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NOx and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or shut down within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
12. Source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
13. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
14. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
15. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]

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16. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
21. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
24. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. NO<sub>x</sub>, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO<sub>x</sub> and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NO<sub>x</sub> emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NO<sub>x</sub> emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
28. The following conditions must be met for representative unit(s) to be used to test for NO<sub>x</sub> limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
29. All units in a group for which representative units are source for NO<sub>x</sub> emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]

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30. All units in a group for which representative units are source tested to for NO<sub>x</sub> emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
31. The number of representative units source tested for NO<sub>x</sub> emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-16-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG N-8, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, GAS FIRED, WITH NORTH AMERICAN MODEL 6131G LONOX BURNER WITH FLUE GAS RECIRCULATION

**PERMIT UNIT REQUIREMENTS**

1. This unit shall be fired on Public Utility Commission (PUC) quality natural gas only. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
3. Steam generator shall be equipped with O2 controller and excess O2 shall be maintained between 0.5 and 3.0%. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
4. Emissions shall not exceed: 0.014 lb-PM10/MMBtu calculated at 12% CO2; 0.001 lb-SOx/MMBtu (calculated as SO2); 0.036 lb-NOx/MMBtu @ 3% O2 (calculated as NO2) or 30 ppmv @ 3% O2; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O2. [District NSR Rule, Rule 4201, 5.1, Rule 4301, 5.1, 5.2 and Rule 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
5. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
6. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
7. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
8. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NOx and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or shut down within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
12. Source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
13. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
14. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
15. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]

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16. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
21. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
24. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. NO<sub>x</sub>, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory and shall be witnessed or authorized by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO<sub>x</sub> and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NO<sub>x</sub> emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NO<sub>x</sub> emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
28. The following conditions must be met for representative unit(s) to be used to test for NO<sub>x</sub> limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
29. All units in a group for which representative units are source for NO<sub>x</sub> emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]

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30. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
31. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-17-6

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG S-9, 62.5 MMBTU/HR THERMOTICS, NATURAL GAS/VAPOR RECOVERY GAS-FIRED STEAM GENERATOR WITH FLUE GAS RECIRCULATION SERVED BY LO-COST H<sub>2</sub>S SCAVENGER SYSTEM SHARED WITH PERMIT UNITS C-1121-18, '19 AND '41

## PERMIT UNIT REQUIREMENTS

1. Only PUC-quality natural gas or a combination of natural gas and vapor recovery gas shall be used as fuel. [District NSR Rule], [Federally Enforceable Through Title V]
2. Lo-Cost H<sub>2</sub>S scavenging system shall be used whenever vapor recovery gas is fired in this unit. [District NSR Rule], [Federally Enforceable Through Title V]
3. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
4. Combined exhaust gases from the two CVR (C-1121-38 and C-1121-39) and the section 32 TVR systems shall not exceed 675,000 scf/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Permittee shall maintain daily record of all natural gas consumption including waste gas consumption, fuel sulfur content, calculated SO<sub>x</sub> emissions, supplier certifications and test results to show compliance with the conditions of this permit. The operator shall record daily amount and type (s) of fuel(s) combusted and all dates on which unit is fired on any non certified fuel and record specific type(s) of non certified fuel used. [District Rule 1070 and District Rule 2520, section 9.4.2], [Federally Enforceable Through Title V]
6. Steam generator shall be equipped with O<sub>2</sub> controller and excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. [District NSR and Rule 4305], [Federally Enforceable Through Title V]
7. Emissions shall not exceed: 0.014 lb-PM<sub>10</sub>/MMBtu calculated to 12% CO<sub>2</sub>; 0.08 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>; 0.036 lb-NO<sub>x</sub>/MMBtu calculated as NO<sub>2</sub> @ 3% O<sub>2</sub> or 30 ppmv @ 3% O<sub>2</sub>; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O<sub>2</sub>. [District NSR Rules, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
8. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. The sulfur content of treated waste gas exiting the H<sub>2</sub>S Scavenger System shall be determined on a daily basis by gas detector tube sampling. [District NSR Rule], [Federally Enforceable Through Title V]
12. The sulfur content and higher heating value of the treated waste gas exiting the H<sub>2</sub>S Scavenger System shall be determined on a bi-annual basis using grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19. [District NSR Rule], [Federally Enforceable Through Title V]
13. Daily SO<sub>x</sub> emissions from combustion of waste gas shall be calculated based on the waste gas sulfur content as determined by gas detector tube sampling or the most recent laboratory analysis, whichever is greater. [District NSR Rule], [Federally Enforceable Through Title V]
14. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NO<sub>x</sub> and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
15. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or the unit is not shutdown within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]

## Initial TV Permit

16. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District Rule 1070 and District Rule 2520, section 9.4.2], [Federally Enforceable Through Title V]
17. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
18. Source testing to demonstrate compliance with NOx and CO emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
19. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
20. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
21. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
22. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6, ARB Method 100 or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
26. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
29. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
30. NOx, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory with sample collection by ARB certified testing laboratory and shall be witnessed or authorized by the District. [District Rule 1081, 3.0, 4.0 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
31. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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32. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
33. The following conditions must be met for representative unit(s) to be used to test for NOx limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
34. All units in a group for which representative units are source for NOx emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
35. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
36. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-18-6

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG S-10, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, NATURAL GAS/VAPOR RECOVERY GAS-FIRED STEAM GENERATOR WITH FLUE GAS RECIRCULATION SERVED BY LO-COST H<sub>2</sub>S SCAVENGER SYSTEM SHARED WITH PERMIT UNITS C-1121-17, -19 AND -41

## PERMIT UNIT REQUIREMENTS

1. Only PUC-quality natural gas or a combination of natural gas and vapor recovery gas shall be used as fuel. [District NSR Rule], [Federally Enforceable Through Title V]
2. Lo-Cost H<sub>2</sub>S scavenging system shall be used whenever vapor recovery gas is fired in this unit. [District NSR Rule], [Federally Enforceable Through Title V]
3. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
4. Combined exhaust gases from the two CVR (C-1121-38 and C-1121-39) and the section 32 TVR systems shall not exceed 675,000 scf/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Permittee shall maintain daily record of all natural gas consumption including waste gas consumption, fuel sulfur content, calculated SO<sub>x</sub> emissions, supplier certifications and test results to show compliance with the conditions of this permit. The operator shall record daily amount and type (s) of fuel(s) combusted and all dates on which unit is fired on any non certified fuel and record specific type(s) of non certified fuel used. [District Rule 1070 and District Rule 2520, section 9.4.2], [Federally Enforceable Through Title V]
6. Steam generator shall be equipped with O<sub>2</sub> controller and excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. [District NSR and Rule 4305], [Federally Enforceable Through Title V]
7. Emissions shall not exceed: 0.014 lb-PM<sub>10</sub>/MMBtu calculated to 12% CO<sub>2</sub>; 0.08 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>; 0.036 lb-NO<sub>x</sub>/MMBtu calculated as NO<sub>2</sub> @ 3% O<sub>2</sub> or 30 ppmv @ 3% O<sub>2</sub>; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O<sub>2</sub>. [District NSR Rules, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
8. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. The sulfur content of treated waste gas exiting the H<sub>2</sub>S Scavenger System shall be determined on a daily basis by gas detector tube sampling. [District NSR Rule], [Federally Enforceable Through Title V]
12. The sulfur content and higher heating value of the treated waste gas exiting the H<sub>2</sub>S Scavenger System shall be determined on a bi-annual basis using grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19. [District NSR Rule], [Federally Enforceable Through Title V]
13. Daily SO<sub>x</sub> emissions from combustion of waste gas shall be calculated based on the waste gas sulfur content as determined by gas detector tube sampling or the most recent laboratory analysis, whichever is greater. [District NSR Rule], [Federally Enforceable Through Title V]
14. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NO<sub>x</sub> and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
15. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or the unit is not shutdown within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]

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16. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District Rule 1070 and District Rule 2520, section 9.4.2], [Federally Enforceable Through Title V]
17. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
18. Source testing to demonstrate compliance with NOx and CO emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
19. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
20. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
21. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
22. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6, ARB Method 100 or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
26. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
29. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
30. NOx, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory with sample collection by ARB certified testing laboratory and shall be witnessed or authorized by the District. [District Rule 1081, 3.0, 4.0 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
31. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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32. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
33. The following conditions must be met for representative unit(s) to be used to test for NOx limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
34. All units in a group for which representative units are source for NOx emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
35. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
36. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-19-6

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG S-11, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, NATURAL-GAS/VAPOR RECOVERY GAS-FIRED STEAM GENERATOR WITH FLUE GAS RECIRCULATION SERVED BY LO-COST H<sub>2</sub>S SCAVENGER SYSTEM SHARED WITH PERMIT UNITS C-1121-17, -18 AND -41

## PERMIT UNIT REQUIREMENTS

1. Only PUC-quality natural gas or a combination of natural gas and vapor recovery gas shall be used as fuel. [District NSR Rule], [Federally Enforceable Through Title V]
2. Lo-Cost H<sub>2</sub>S scavenging system shall be used whenever vapor recovery gas is fired in this unit. [District NSR Rule], [Federally Enforceable Through Title V]
3. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
4. Combined exhaust gases from the two CVR (C-1121-38 and C-1121-39) and the section 32 TVR systems shall not exceed 675,000 scf/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Permittee shall maintain daily record of all natural gas consumption including waste gas consumption, fuel sulfur content, calculated SO<sub>x</sub> emissions, supplier certifications and test results to show compliance with the conditions of this permit. The operator shall record daily amount and type (s) of fuel(s) combusted and all dates on which unit is fired on any non certified fuel and record specific type(s) of non certified fuel used. [District Rule 1070 and District Rule 2520, section 9.4.2], [Federally Enforceable Through Title V]
6. Steam generator shall be equipped with O<sub>2</sub> controller and excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. [District NSR and Rule 4305], [Federally Enforceable Through Title V]
7. Emissions shall not exceed: 0.014 lb-PM<sub>10</sub>/MMBtu calculated to 12% CO<sub>2</sub>; 0.08 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>; 0.036 lb-NO<sub>x</sub>/MMBtu calculated as NO<sub>2</sub> @ 3% O<sub>2</sub> or 30 ppmv @ 3% O<sub>2</sub>; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O<sub>2</sub>. [District NSR Rules, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
8. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. The sulfur content of treated waste gas exiting the H<sub>2</sub>S Scavenger System shall be determined on a daily basis by gas detector tube sampling. [District NSR Rule], [Federally Enforceable Through Title V]
12. The sulfur content and higher heating value of the treated waste gas exiting the H<sub>2</sub>S Scavenger System shall be determined on a bi-annual basis using grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19. [District NSR Rule], [Federally Enforceable Through Title V]
13. Daily SO<sub>x</sub> emissions from combustion of waste gas shall be calculated based on the waste gas sulfur content as determined by gas detector tube sampling or the most recent laboratory analysis, whichever is greater. [District NSR Rule], [Federally Enforceable Through Title V]
14. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NO<sub>x</sub> and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
15. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or the unit is not shutdown within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]

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16. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District Rule 1070 and District Rule 2520, section 9.4.2], [Federally Enforceable Through Title V]
17. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
18. Source testing to demonstrate compliance with NOx and CO emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
19. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
20. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
21. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
22. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6, ARB Method 100 or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
26. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
29. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
30. NOx, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory with sample collection by ARB certified testing laboratory and shall be witnessed or authorized by the District. [District Rule 1081, 3.0, 4.0 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
31. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

32. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
33. The following conditions must be met for representative unit(s) to be used to test for NOx limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
34. All units in a group for which representative units are source for NOx emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
35. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
36. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-21-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG 32: 21 MMBTU/HR STRUTHER-WELLS MODEL 0H18 STEAM GENERATOR, SN 27591-66 WITH A NORTH AMERICAN 5131 E, 140 GPH OIL BURNER AND HAGUE OXSEN OXYGEN CONTROLLER, P4017.

## PERMIT UNIT REQUIREMENTS

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1. Fuel oil consumption shall not exceed 981,000 gal/year. [ ]
2. Fuel oil sulfur content shall not exceed 0.6% by weight. [ ]
3. Permittee shall record fuel consumption and sulfur content. Records shall be retained for at least two years and provided to the District upon request. [ ]
4. NO<sub>2</sub> emissions shall not exceed 0.37 lb/MMBtu. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-22-3

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

V-303, 4.0 MMBTU/HR ENGELMAN GENERAL HEATER WITH NORTH AMERICAN MODEL 5131 GAS BURNER AND PRESSURE RELIEF VENT TO VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

**PERMIT UNIT REQUIREMENTS**

1. The total heat input shall not exceed 30 billion Btu per calendar year. [District NSR Rule], [Federally Enforceable Through Title V]
2. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 1070 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD or by equivalent double GC for H<sub>2</sub>S and mercaptans performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 1070 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or a grab sample analysis by GC-FPD/TCD or by equivalent double GC for H<sub>2</sub>S and mercaptans performed in the laboratory and EPA method 19 to calculate emissions. [District Rule 1070] N [District Rule 1070 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. Emissions shall not exceed 0.1 lb-NO<sub>x</sub>/MMBtu calculated as NO<sub>2</sub>, 0.084 lb-CO/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub>, 0.0055 lb-VOC/MMBtu, or 0.0006 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 5.1 and Rule 4301, 5.1, 5.2], [Federally Enforceable Through Title V]
6. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1, Rule 4801, 3.1 and County Rules 404 (Madera), 406 (Fresno), and 407 (Kern, Kings, Merced, San Joaquin, Stanislaus, and Tulare)], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-23-3

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

V-304, 9.0 MMBTU/HR ENGELMAN GENERAL HEATER WITH TWO 4.5 MMBTU/HR NORTH AMERICAN MODEL 5131 GAS BURNER WITH SEPARATE EXHAUST STACKS AND PRESSURE RELIEF VENT TO VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

1. The total heat input shall not exceed 30 billion Btu per calendar year. [District NSR Rule], [Federally Enforceable Through Title V]
2. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 1070 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8 or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD or by equivalent double GC for H<sub>2</sub>S and mercaptans method performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 1070 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 by GC-FPD/TCD or equivalent double GC for H<sub>2</sub>S and mercaptans method performed in the laboratory and EPA method 19 to calculate emissions. [District Rule 1070 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. Emissions shall not exceed 0.1 lb-NO<sub>x</sub>/MMBtu calculated as NO<sub>2</sub>, 0.084 lb-CO/MMBtu, 0.0076 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub>, 0.0055 lb-VOC/MMBtu, or 0.0006 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 5.1 and Rule 4301, 5.1, 5.2], [Federally Enforceable Through Title V]
6. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
7. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
9. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

## Initial TV Permit

12. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-24-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

V-307, 6.0 MMBTU/HR ENGLEMAN GENERAL HEATER WITH TWO 3.0 MMBTU HR NORTH AMERICAN MODEL 5131 GAS BURNERS AND PRESSURE RELIEF VENT TO VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

1. Fuel consumption shall not exceed 114,290 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
2. Emissions shall not exceed 16.0 lb-NOx/day calculated as NO2, 0.07 lb-SOx/day calculated as SO2, 4.0 lb-CO/day, 0.50 lb-PM10/day calculated at 12% CO2, nor 0.32 lb-VOC(NMHC)/day. [District NSR Rule, Rule 4201, 5.1 and Rule 4301, 5.1, 5.2], [Federally Enforceable Through Title V]
3. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
4. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-25-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

V-308, 6.0 MMBTU/HR ENGELMAN GENERAL HEATER WITH TWO 3.0 MMBTU HR NORTH AMERICAN MODEL 5131 GAS BURNERS AND PRESSURE RELIEF VENT TO VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

- 
1. Fuel consumption shall not exceed 114,290 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
  2. Emissions shall not exceed 16.0 lb-NOx/day calculated as NO2, 0.07 lb-SOx/day calculated as SO2, 4.0 lb-CO/day, 0.50 lb-PM10/day calculated at 12% CO2, nor 0.32 lb-VOC(NMHC)/day. [District NSR Rule, Rule 4201, 5.1 and Rule 4301, 5.1, 5.2], [Federally Enforceable Through Title V]
  3. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
  4. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  5. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  6. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  7. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  8. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  9. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-26-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

V-309, 6.0 MMBTU/HR ENGELMAN GENERAL HEATER WITH TWO 3.0 MMBTU HR NORTH AMERICAN MODEL 6121-25H GAS BURNERS AND PRESSURE RELIEF VENT TO VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

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1. Fuel consumption shall not exceed 114,290 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
  2. Emissions shall not exceed 16.0 lb-NOx/day calculated as NO2, 0.07 lb-SOx/day calculated as SO2, 4.0 lb-CO/day, 0.50 lb-PM10/day calculated at 12% CO2, nor 0.32 lb-VOC(NMHC)/day. [District NSR Rule, Rule 4201, 5.1 and Rule 4301, 5.1, 5.2], [Federally Enforceable Through Title V]
  3. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
  4. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  5. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  6. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  7. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  8. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  9. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-27-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

435 HP NORTH CLUSTER DUCON SCRUBBER, SODIUM HYDROXIDE, WITH 435 HP FOR PUMPS AND FAN COMBINED.

## PERMIT UNIT REQUIREMENTS

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1. Operator shall maintain a pressure differential of at least 10" w.c. across the venturi. [ ]
2. Operator shall maintain a pH value of at least 6.5. [ ]
3. Operator shall maintain an absorber 3-nozzle manifold pressure of no more than 60 psi. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-28-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

435 HP CENTRAL CLUSTER DUCON SCRUBBER, SODIUM HYDROXIDE, WITH 435 HP FOR PUMPS AND FAN COMBINED SERVING SG-C1, SG-C2, SG-C3, AND SG-C4 (PERMITS C-1121-9-0, C-1121-10-0, C-1121-11-0, AND C-1121-12-0, RESPECTIVELY.)

## **PERMIT UNIT REQUIREMENTS**

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1. Operator shall maintain a pressure differential of at least 10" w.c. across the venturi. [ ]
2. Operator shall maintain a pH value of at least 6.5. [ ]
3. Operator shall maintain an absorber 3-nozzle manifold pressure of no more than 60 psi. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-29-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

435 HP SOUTH CLUSTER DUCON SCRUBBER, SODIUM HYDROXIDE, WITH 435 HP FOR PUMPS AND FAN COMBINED.

## PERMIT UNIT REQUIREMENTS

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1. Operator shall maintain a pressure differential of at least 10" w.c. across the venturi. [ ]
2. Operator shall maintain a pH value of at least 6.5. [ ]
3. Operator shall maintain an absorber 3-nozzle manifold pressure of no more than 60 psi. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-30-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

HT 3368: 6.0 MMBTU/HR RHEEM HEATER TREATER, SN 3368, WITH A NORTH AMERICAN 5131 B OIL/GAS BURNER.

## **PERMIT UNIT REQUIREMENTS**

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1. Fuel consumption shall not exceed 960 gal/day of fuel oil nor 144,000 scf/day of natural gas. [ ]
2. Fuel oil shall not exceed 0.6% by weight of sulfur nor 0.54% by weight of nitrogen. [ ]
3. Permittee shall record fuel consumption by type, and the sulfur and nitrogen content of the fuel oil. Records shall be retained for at least two years and provided to the District upon request. [ ]
4. Emissions shall not exceed the following limits: NO<sub>2</sub> - 52.8 lb/day, SO<sub>2</sub> - 90.43 lb/day, CO - 4.8 lb/day, PM<sub>10</sub> - 8.64 lb/day, and VOC (NMHC) - 1.08 lb/day. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-31-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

HT 3370: 6.0 RHEEM HEATER TREATER, SN 3370, WITH A NORTH AMERICAN MODEL 5131 B OIL/GAS BURNER.

## **PERMIT UNIT REQUIREMENTS**

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1. Fuel consumption shall not exceed 960 gal/day of fuel oil nor 144,000 scf/day of natural gas. [ ]
2. Fuel oil shall not exceed 0.6% by weight of sulfur nor 0.54% by weight of nitrogen. [ ]
3. Permittee shall record fuel consumption by type, and the sulfur and nitrogen content of the fuel oil. Records shall be retained for at least two years and provided to the District upon request. [ ]
4. Emissions shall not exceed the following limits: NO<sub>2</sub> - 52.8 lb/day, SO<sub>2</sub> - 90.43 lb/day, CO - 4.8 lb/day, PM<sub>10</sub> - 8.64 lb/day, and VOC (NMHC) - 1.08 lb/day. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-33-2

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

TG-1, 52.2 MMBTU/HR ALLISON GM 501-KB5 NATURAL GAS FIRED TURBINE WITH WATER INJECTION DRIVING A 4 MW ELECTRICAL GENERATOR.

**PERMIT UNIT REQUIREMENTS**

1. Fuel consumption shall not exceed 1,200,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
2. Unit shall be exclusively fired with natural gas containing no more than 1 grain of total sulfur per 100 standard cubic feet of gas (as determined by test method ASTM D-1072. [District NSR Rule], [Federally Enforceable Through Title V]
3. Emissions (corrected to 15% O<sub>2</sub>) shall not exceed 40 ppm NO<sub>x</sub> nor 38 ppm CO. [District NSR Rule, 40 CFR 60.332(a)(1) & 60.332(a)(2) and District Rule 4703, 5.1.1], [Federally Enforceable Through Title V]
4. Emissions shall not exceed any of the following: 199.2 lb NO<sub>x</sub>/day, 115.2 lb CO/day, 16.8 lb PM<sub>10</sub>/day, 4.8 lb SO<sub>x</sub>/day, & 48.0 lb VOC/day. [District NSR Rule]
5. Annual compliance testing demonstrating compliance with all emission limits shall be conducted at least 60 days prior to the annual renewal date. The District shall be notified of this testing at least 14 days prior to the proposed date. [District Rule 4703], [Federally Enforceable Through Title V]
6. The water-to-fuel ratio shall be maintained between 0.6 and 0.8 lb of water to pound of fuel. Operator shall perform and submit an engineering performance test to demonstrate continuous compliance with condition 5 beyond the specified ratios. [District NSR Rule and Rule 4703], [Federally Enforceable Through Title V]
7. The sulfur content of natural gas shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 1070], [Federally Enforceable Through Title V]
8. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081 (amended 12/13/93). [District Rule 1081; Rule 108.1 (Fresno)], [Federally Enforceable Through Title V]
9. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5], [Federally Enforceable Through Title V]
10. Nitrogen oxides (NO<sub>x</sub>) concentrations shall be determined using EPA Method 7E or 20 or ARB Method 100, and oxygen (O<sub>2</sub>) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4], [Federally Enforceable Through Title V]
11. The operator shall provide source test information annually regarding the exhaust gas NO<sub>x</sub> concentration corrected to 15% O<sub>2</sub> (dry). [40 CFR 60.332(a), (b) and District Rule 4703, 5.1], [Federally Enforceable Through Title V]
12. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4], [Federally Enforceable Through Title V]
14. The following types of units are not affected units subject to the requirements of the Acid Rain Program: 1) A simple combustion turbine that commenced operation before November 15, 1990, 2) Any unit that, during 1985, did not serve a generator that produced electricity for sale and that did not, as of November 15, 1990, and does not currently, serve a generator that produces electricity for sale, 3) A cogeneration facility which for a unit that commenced construction prior to November 15, 1990, was constructed for the purpose of supplying equal to or less than one-third its potential electrical output capacity or equal to or less than 219,000 Mwe-hrs actual electric output on an annual basis to any utility power distribution system for sale. Therefore, the requirements of 40 CFR 72.6 do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

## Initial TV Permit

15. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rule 1081, 4201, 3.1; Rules 406 (Fresno), 407 (Kings, San Joaquin, Stanislaus, Tulare, Merced, and Kern), and 404(Madera); 40 CFR 60.332(c), (d); 60.334 (b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); Rules 402 (Madera) and 404 (Fresno, Kern, Kings, San Joaquin, Merced, Stanislaus, Tulare); 40 CFR 60.332 (a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335 (a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
17. Compliance with the permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
18. Permittee shall install, operate and maintain in calibration, to within 5% accuracy, a monitoring system which continuously measures and records the water-to-fuel ratio and fuel consumption and which correlates the water-to-fuel ratio during initial source testing with the NO<sub>x</sub> concentration in the exhaust by using the method described in 40 CFR 60.335(c). [District NSR Rule, Rule 1070 and 40 CFR 60.334], [Federally Enforceable Through Title V]
19. Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [40 CFR 60.334 and District Rule 4703, 6.2.1], [Federally Enforceable Through Title V]
20. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-34-2

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

TG-2, 52.2 MMBTU/HR ALLISON GM 501-KB5 NATURAL GAS FIRED TURBINE WITH WATER INJECTION DRIVING A 4 MW ELECTRICAL GENERATOR.

**PERMIT UNIT REQUIREMENTS**

1. Fuel consumption shall not exceed 1,200,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
2. Unit shall be exclusively fired with natural gas containing no more than 1 grain of total sulfur per 100 standard cubic feet of gas (as determined by test method ASTM D-1072. [District NSR Rule], [Federally Enforceable Through Title V]
3. Emissions (corrected to 15% O<sub>2</sub>) shall not exceed 40 ppm NO<sub>x</sub> nor 38 ppm CO. [District NSR Rule, 40 CFR 60.332(a)(1) & 60.332(a)(2) and District Rule 4703, 5.1.1], [Federally Enforceable Through Title V]
4. Emissions shall not exceed any of the following: 199.2 lb NO<sub>x</sub>/day, 115.2 lb CO/day, 16.8 lb PM<sub>10</sub>/day, 4.8 lb SO<sub>x</sub>/day, & 48.0 lb VOC/day. [District NSR Rule]
5. Annual compliance testing demonstrating compliance with all emission limits shall be conducted at least 60 days prior to the annual renewal date. The District shall be notified of this testing at least 14 days prior to the proposed date. [District Rule 4703], [Federally Enforceable Through Title V]
6. The water-to-fuel ratio shall be maintained between 0.6 and 0.8 lb of water to pound of fuel. Operator shall perform and submit an engineering performance test to demonstrate continuous compliance with condition 5 beyond the specified ratios. [District NSR Rule and Rule 4703], [Federally Enforceable Through Title V]
7. The sulfur content of natural gas shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 1070], [Federally Enforceable Through Title V]
8. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Rule 108.1 (Fresno)], [Federally Enforceable Through Title V]
9. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5], [Federally Enforceable Through Title V]
10. Nitrogen oxides (NO<sub>x</sub>) concentrations shall be determined using EPA Method 7E or 20 or ARB Method 100, and oxygen (O<sub>2</sub>) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4], [Federally Enforceable Through Title V]
11. The operator shall provide source test information annually regarding the exhaust gas NO<sub>x</sub> concentration corrected to 15% O<sub>2</sub> (dry). [40 CFR 60.332(a), (b) and District Rule 4703, 5.1], [Federally Enforceable Through Title V]
12. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4], [Federally Enforceable Through Title V]
14. The following types of units are not affected units subject to the requirements of the Acid Rain Program: 1) A simple combustion turbine that commenced operation before November 15, 1990, 2) Any unit that, during 1985, did not serve a generator that produced electricity for sale and that did not, as of November 15, 1990, and does not currently, serve a generator that produces electricity for sale, 3) A cogeneration facility which for a unit that commenced construction prior to November 15, 1990, was constructed for the purpose of supplying equal to or less than one-third its potential electrical output capacity or equal to or less than 219,000 Mwe-hrs actual electric output on an annual basis to any utility power distribution system for sale. Therefore, the requirements of 40 CFR 72.6 do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



## Initial TV Permit

15. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rule 1081, 4201, 3.1; Rules 406 (Fresno), 407 (Kings, San Joaquin, Stanislaus, Tulare, Merced, and Kern), and 404(Madera); 40 CFR 60.332(c), (d); 60.334 (b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); Rules 402 (Madera) and 404 (Fresno, Kern, Kings, San Joaquin, Merced, Stanislaus, Tulare); 40 CFR 60.332 (a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335 (a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
17. Compliance with the permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
18. Permittee shall install, operate and maintain in calibration, to within 5% accuracy, a monitoring system which continuously measures and records the water-to-fuel ratio and fuel consumption and which correlates the water-to-fuel ratio during initial source testing with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [District NSR Rule, Rule 1070 and 40 CFR 60.334], [Federally Enforceable Through Title V]
19. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.3], [Federally Enforceable Through Title V]
20. Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [40 CFR 60.334 and District Rule 4703, 6.2.1], [Federally Enforceable Through Title V]
21. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-35-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

7.8 MMBTU/HR KALDAIR SMOKELESS BACK-UP FLARE WITH 137 SCF/MIN BURNER.

## **PERMIT UNIT REQUIREMENTS**

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1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
2. Pilot assembly shall be operated exclusively on PUC gas. [ ]
3. Pilot assembly shall be operated continually during flare operation. [ ]
4. Flare shall only be operated when the heater treaters (C-1121-31-0 and C-1121-32-0) are not in operation. [ ]
5. Gas consumption shall not exceed 197,300 scf/day. [ ]
6. Permittee shall record gas consumption. Records shall be retained for at least two years and provided to the District upon request. [ ]
7. Emissions shall not exceed the following rates: NOx - 52.8 lb/day, SO<sub>2</sub> - 90.48 lb/day, PM<sub>10</sub> - 8.64 lb/day, VOC - 1.08 lb/day, and CO - 4.8 lb/day. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-36-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

35,900 GALLON DIATOMACEOUS EARTH SILO WITH UNIMASTER DCE VOKES UMA 100 BIN FILTER AND BIN ACTIVATOR. TOTAL VOLUME: 4,800 CF.

**PERMIT UNIT REQUIREMENTS**

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1. Filter shall be cleaned by vibrating before and after intermittent truck loading. [District NSR Rule], [Federally Enforceable Through Title V]
  2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201], [Federally Enforceable Through Title V]
  3. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions prior to further loading. Corrective action shall eliminate visible emissions before next loading event. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  4. Records of vent filter maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  5. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour [District Rule 4202], [Federally Enforceable Through Title V]
  6. Compliance with permit conditions in the Operating Permit shall be deemed compliance with the following applicable requirements: District Rule 4201 (12/17/ 92). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-37-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

25.0 HP PRECOAT TANK AND BODY FEED MIXING TANK

## **PERMIT UNIT REQUIREMENTS**

1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623], [Federally Enforceable Through Title V]
2. The operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. The operator shall keep accurate records of types, storage temperature and TVP of liquids stored to verify continued exemption from District Rule 4623 (amended 12/17/92). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of the API gravity of petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-38-2

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

CVR-1, CASING VAPOR RECOVERY SYSTEM WITH V100 AND V300 SEPARATOR, E100 LIQUID EXTRACTOR, E300 AND E301 AIR COOLED EXCHANGER, VR100 AND P100 COMPRESSOR, P100 AND P101 CONDENSATE PUMP, AND V500 SURGE VESSEL. SERVES 155 STEAM-DRIVE WELLS.

## **PERMIT UNIT REQUIREMENTS**

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1. Non-condensibles shall be exhausted into a working steam generator firebox for combustion. [District NSR Rule], [Federally Enforceable Through Title V]
  2. Casing vapor recovery system shall be operated to achieve at least 99% control efficiency. [District Rule 4401], [Federally Enforceable Through Title V]
  3. If the well casing vent is sealed or "shut-in", then the produced oil is to be routed only to tanks served by the vapor recovery system under permit #C-1121-45 with 99% control efficiency. [District NSR Rule and Rule 4401], [Federally Enforceable Through Title V]
  4. VOC emissions shall not exceed 2.237 lb VOC/day per well. [District NSR Rule], [Federally Enforceable Through Title V]
  5. Permittee shall maintain a well roster listing all wells connected to the well vent vapor recovery system and which well casing vents are shut-in. The well roster shall be kept on site and shall be made available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
  6. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
  7. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1], [Federally Enforceable Through Title V]
  8. Total number of leaks from the vapor collection and control system, including condensate handling, shall not exceed the number as allowed by Rule 4401 (as amended January 15, 1998) at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
  9. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
  10. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
  11. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
  12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.3.3], [Federally Enforceable Through Title V]
  13. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  14. the crude oil production wells associated with this unit do not have production enhanced by in-situ combustion. Therefore, the requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-39-2

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

CVR-2, 140 HP CASING VAPOR RECOVERY SYSTEM WITH V100 AND V300 SEPARATORS, E101 LIQUID EXCHANGERS, E200 CONDENSATE COOLER, E300 AIR COOLED EXCHANGER, VR101 COMPRESSOR, P100 AND P101 CONDENSATE PUMPS, AND V500 SURGE VESSEL. SERVES 213 STEAM-DRIVE WELLS

## **PERMIT UNIT REQUIREMENTS**

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1. Non-condensibles shall be exhausted into a working steam generator firebox for combustion. [District NSR Rule], [Federally Enforceable Through Title V]
  2. Casing vapor recovery system shall be operated to achieve at least 99% control efficiency. [District Rule 4401], [Federally Enforceable Through Title V]
  3. If the well casing vent is sealed or "shut-in", then the produced oil is to be routed only to tanks served by the vapor recovery system under permit #C-1121-45 with 99% control efficiency. [District NSR Rule and Rule 4401], [Federally Enforceable Through Title V]
  4. VOC emissions shall not exceed 2.237 lb VOC/day per well. [District NSR Rule], [Federally Enforceable Through Title V]
  5. Permittee shall maintain a well roster listing all wells connected to the well vent vapor recovery system and which well casing vents are shut-in. The well roster shall be kept on site and shall be made available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
  6. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
  7. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1.1], [Federally Enforceable Through Title V]
  8. Total number of leaks from the vapor collection and control system, including condensate handling, shall not exceed the number as allowed by Rule 4401 (as amended January 15, 1998) at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
  9. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
  10. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
  11. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
  12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.3.3], [Federally Enforceable Through Title V]
  13. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  14. the crude oil production wells associated with this unit do not have production enhanced by in-situ combustion. Therefore, the requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-40-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

45.0 HP TANK VAPOR RECOVERY SYSTEM SERVING TANKS T-316, T-317, T-318, HEATER TREATER V-307, V-308, V-309, AND FWKO V-313, AND V-336.

## PERMIT UNIT REQUIREMENTS

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1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
2. All recovered vapors shall be exhausted to steam generators for incineration. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-41-6

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

SG S-12, 62.5 MMBTU/HR THERMOTICS STEAM GENERATOR, NATURAL-GAS/VAPOR RECOVERY GAS-FIRED STEAM GENERATOR WITH FLUE GAS RECIRCULATION SERVED BY LO-COST H<sub>2</sub>S SCAVENGER SYSTEM SHARED WITH PERMIT UNITS C-1121-17, -18 AND -19

## PERMIT UNIT REQUIREMENTS

1. Only PUC-quality natural gas or a combination of natural gas and vapor recovery gas shall be used as fuel. [District NSR Rule], [Federally Enforceable Through Title V]
2. Lo-Cost H<sub>2</sub>S scavenging system shall be used whenever vapor recovery gas is fired in this unit. [District NSR Rule], [Federally Enforceable Through Title V]
3. Fuel consumption shall not exceed 1,430,000 scf/day of natural gas. [District NSR Rule], [Federally Enforceable Through Title V]
4. Combined exhaust gases from the two CVR (C-1121-38 and C-1121-39) and the section 32 TVR systems shall not exceed 675,000 scf/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Permittee shall maintain daily record of all natural gas consumption including waste gas consumption, fuel sulfur content, calculated SO<sub>x</sub> emissions, supplier certifications and test results to show compliance with the conditions of this permit. The operator shall record daily amount and type (s) of fuel(s) combusted and all dates on which unit is fired on any non certified fuel and record specific type(s) of non certified fuel used. [District Rule 1070 and District Rule 2520, section 9.4.2], [Federally Enforceable Through Title V]
6. Steam generator shall be equipped with O<sub>2</sub> controller and excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. [District NSR and Rule 4305], [Federally Enforceable Through Title V]
7. Emissions shall not exceed: 0.014 lb-PM<sub>10</sub>/MMBtu calculated to 12% CO<sub>2</sub>; 0.08 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>; 0.036 lb-NO<sub>x</sub>/MMBtu calculated as NO<sub>2</sub> @ 3% O<sub>2</sub> or 30 ppmv @ 3% O<sub>2</sub>; 0.003 lb-VOC/MMBtu or 43 ppmv CO @ 3% O<sub>2</sub>. [District NSR Rules, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
8. The steam generator shall be equipped with an FGR valve positioning indicator. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
9. Except during periods of steam generator startup/shutdown, steam generator shall not be operated unless flue gas recirculation system is operating. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
10. Steam generator may be equipped with a programmable logic controller (PLC). [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
11. The sulfur content of treated waste gas exiting the H<sub>2</sub>S Scavenger System shall be determined on a daily basis by gas detector tube sampling. [District NSR Rule], [Federally Enforceable Through Title V]
12. The sulfur content and higher heating value of the treated waste gas exiting the H<sub>2</sub>S Scavenger System shall be determined on a bi-annual basis using grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19. [District NSR Rule], [Federally Enforceable Through Title V]
13. Daily SO<sub>x</sub> emissions from combustion of waste gas shall be calculated based on the waste gas sulfur content as determined by gas detector tube sampling or the most recent laboratory analysis, whichever is greater. [District NSR Rule], [Federally Enforceable Through Title V]
14. The acceptable range of the flue gas recirculation (FGR) valve settings shall be established by testing emissions from this or other representative unit(s) as approved by the District. The acceptable maximum and minimum FGR valve settings shall be the settings with which compliance with the applicable NO<sub>x</sub> and CO emission rates have been demonstrated through District approved source testing. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
15. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and return the valve to within the acceptable range as soon as possible but no longer than one (1) hour after detection. If the flue gas recirculation valve settings are not returned to within the acceptable range or the unit is not shutdown within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve setting. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]



## Initial TV Permit

16. Permittee shall record the FGR valve position and date and time when the FGR valve position was checked on a weekly basis. Permittee shall record any corrective action taken to maintain the FGR setting within the acceptable range. Permittee shall maintain records of date and duration of each startup and each shut down. [District Rule 1070 and District Rule 2520, section 9.4.2], [Federally Enforceable Through Title V]
17. Compliance source testing shall be conducted under conditions representative of normal operation except during the establishment of acceptable minimum and maximum FGR valve settings. [District Rule 1081], [Federally Enforceable Through Title V]
18. Source testing to demonstrate compliance with NOx and CO emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
19. If permittee fails any compliance demonstration of NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District NSR Rule and Rule 4305], [Federally Enforceable Through Title V]
20. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
21. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
22. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6, ARB Method 100 or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]
26. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
29. This unit commenced construction, modification, or reconstruction prior to June 19, 1984. This unit has not been used to produce electricity for sale in 1985 or on or after November 15, 1990. Therefore, the requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
30. NOx, and CO emissions shall be measured with annual source testing conducted by independent testing laboratory with sample collection by ARB certified testing laboratory and shall be witnessed or authorized by the District. [District Rule 1081, 3.0, 4.0 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
31. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

32. Annual test results submitted to the District from unit(s) representing a group of units may be used to measure NOx emissions of this permit for that group, provided the selection of the representative unit(s) is approved by the APCO prior to testing. Should any of the representative units exceed the required NOx emission limits of this permit, each of the units in the group shall demonstrate compliance by emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rules 4305, 6.3.2 and 4351, 6.3], [Federally Enforceable Through Title V]
33. The following conditions must be met for representative unit(s) to be used to test for NOx limits for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in group are similar in terms of rated heat input (rating not to exceed 100 MMBtu/hr), make and series, operation conditions, and control method, and 3) the group is owned by a single owner and located at a single stationary source. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
34. All units in a group for which representative units are source for NOx emissions shall have received the same maintenance and tune-up procedures as the representative unit(s). These tune-up procedures shall be completed according to District Rule 4304 (Adopted October 19, 1995) and tune-up test results shall show comparable results for each unit in the group. Records shall be maintained for the each unit of the group including all preventative and corrective maintenance work done. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
35. All units in a group for which representative units are source tested to for NOx emissions of this permit shall be fired on the same fuel type during the entire compliance period. If a unit switches for any time to an alternate fuel type (e.g. from natural gas to oil) then that unit shall not be considered part of the group and shall be required to undergo a source test for all fuel types used, within one year of the switch. [District Rules 2520, 9.4.2 and 4305, 6.3.2], [Federally Enforceable Through Title V]
36. The number of representative units source tested for NOx emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated, so that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-42-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

FWKO VESSEL 301 WITH DIMENSIONS 60'OD X 10'H TO SEPARATE PRODUCED OIL AND WATER.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput shall be kept and made available to the District upon request. [ ]
2. Any changes to equipment or processing requires prior written consent from the District. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-43-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

FWKO VESSEL 302 WITH DIMENSIONS 60'OD X 10'H TO SEPARATE PRODUCED OIL AND WATER.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput shall be kept and made available to the District upon request. [ ]
2. Any changes to equipment or processing requires prior written consent from the District. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-44-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

BAKER TANK #1 (500 BBL) USED TO STORE BRINE OR OIL AND WATER FROM OIL PRODUCTION.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput shall be kept and made available to the District upon request. [ ]
2. Any changes to equipment or processing requires prior written consent from the District. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-45-2

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-317, 5,000 BBL FIXED-ROOF STORAGE TANK 24'H X 38.8'D, WITH 60 HP SHARED TANK VAPOR RECOVERY SYSTEM BLANKETED WITH TEOR AND CVR WASTE GAS.

## **PERMIT UNIT REQUIREMENTS**

1. The vapor recovery system is shared with tanks C-1121-46, -79, -82 through 85, -87 through -90; heater treaters C-1121-22 through -26; 2 pressure vessels (V200 & V350); and 5 FWKO vessels (V301, V302, V312, V313, and V336). [District NSR Rule], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 99%. [District NSR Rule and District Rule 4623], [Federally Enforceable Through Title V]
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a gas-tight cover which shall be closed at all times except during gauging or sampling. Gas-tight shall be defined as emitting no more than 10,000 ppm of methane measured at a distance of one centimeter from the potential source with an instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this limit shall be considered a leak. [District Rule 4623, 5.3.2], [Federally Enforceable Through Title V]
4. All piping, valves and fittings shall be constructed and maintained in a gas-tight condition. Gas-tight shall be defined as emitting no more than 10,000 ppm of methane measured at a distance of one centimeter from the potential source with an instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this limit shall be considered a leak. [District Rule 4623, 5.3.3], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature and TVP of liquids stored to verify continued exemption from District Rule 4623 (amended 12/17/92). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. Monthly records of average daily throughput shall be maintained. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
7. VOC emissions from this unit shall not exceed 1.52 pounds per day. [District NSR Rule], [Federally Enforceable Through Title V]
8. At least 20% of all piping, fittings, valves, and components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) shall be inspected annually on a rotating basis so that in five years all potential leak points will be tested at least once by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. A facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

13. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
16. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
17. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
18. The efficiency of any VOC destruction device shall be measured by EPA Method 18. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
19. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
21. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
22. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-46-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-318, 5,000 BBL FIXED-ROOF STORAGE TANK 38.8 FT DIAMETER, SERVED BY A SHARED VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

1. The tank shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 99%. [District NSR Rule and District Rule 4623], [Federally Enforceable Through Title V]
2. The operator shall keep accurate records of types, storage temperature and TVP of liquids stored to verify continued exemption from District Rule 4623 (amended 12/17/92). [District Rule 4623, Section 6.1], [Federally Enforceable Through Title V]
3. Monthly records of average daily throughput shall be maintained. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. VOC emissions shall not exceed 1.52 pounds per day. [District NSR Rule], [Federally Enforceable Through Title V]
5. The tank shall only vent to the vapor recovery system contained in permit unit #C-1121-45. [District NSR Rule], [Federally Enforceable Through Title V]
6. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a gas-tight cover which shall be closed at all times except during gauging or sampling. Gas-tight shall be defined as emitting no more than 10,000 ppm of methane measured at a distance of one centimeter from the potential source with an instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this limit shall be considered a leak. [District Rule 4623, 5.3.2], [Federally Enforceable Through Title V]
7. All piping, valves and fittings shall be constructed and maintained in a gas-tight condition. Gas-tight shall be defined as emitting no more than 10,000 ppm of methane measured at a distance of one centimeter from the potential source with an instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this limit shall be considered a leak. [District Rule 4623, 5.3.3], [Federally Enforceable Through Title V]
8. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-48-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

TWO 1,000 GALLON CONVAULT ABOVEGROUND GASOLINE STORAGE TANKS SERVED BY OPW PHASE I VAPOR RECOVERY SYSTEM AND TWO GASOLINE DISPENSING NOZZLES SERVED BY OPW PHASE II VAPOR RECOVERY SYSTEM (G-70-116-B).

## **PERMIT UNIT REQUIREMENTS**

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1. The vapor recovery systems and their components shall be installed, operated, and maintained in accordance with the State certification requirements. [District Rules 4621 and 4622]
2. The permittee shall perform and pass a Static Pressure Decay Test using BAAQMD Method ST-38 at least once every 12 months. [District Rule 4622]
3. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-49-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #21-1-15.

## **PERMIT UNIT REQUIREMENTS**

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-50-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #23-4-15.

## PERMIT UNIT REQUIREMENTS

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and be made available to the District upon request. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-51-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #15-3-15.

## **PERMIT UNIT REQUIREMENTS**

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and be made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-52-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID:#13-2-15.

## PERMIT UNIT REQUIREMENTS

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and be made available to the District upon request. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-53-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: 18-5-15.

## **PERMIT UNIT REQUIREMENTS**

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and be made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-54-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #20-6-15.

## PERMIT UNIT REQUIREMENTS

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and be made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-55-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON OPEN ROOF CRUDE OIL STORAGE TANK. TANK ID: #TK-11L.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]



## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-56-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

420,000 GALLON OPEN ROOF CRUDE OIL STORAGE TANK. TANK ID: #TK-9.

## PERMIT UNIT REQUIREMENTS

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

**Initial TV Permit**

**San Joaquin Valley  
Air Pollution Control District**

**PERMIT UNIT:** C-1121-57-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON OPEN ROOF CRUDE OIL STORAGE TANK. TANK ID: #36R.

**PERMIT UNIT REQUIREMENTS**

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1. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-58-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON OPEN ROOF CRUDE OIL STORAGE TANK. TANK ID: #44R.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

**Initial TV Permit**

**San Joaquin Valley  
Air Pollution Control District**

**PERMIT UNIT:** C-1121-59-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON OPEN ROOF CRUDE OIL STORAGE TANK. TANK ID: #84R.

**PERMIT UNIT REQUIREMENTS**

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1. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-60-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON OPEN ROOF CRUDE OIL STORAGE TANK. TANK ID: #85R.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-61-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON OPEN ROOF CRUDE OIL STORAGE TANK. TANK ID: #94R.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-62-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TNAK ID: #C-19.

## PERMIT UNIT REQUIREMENTS

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-63-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #C-13.

## PERMIT UNIT REQUIREMENTS

---

1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]



## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-64-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #N-23.

## PERMIT UNIT REQUIREMENTS

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-65-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #S-32.

## PERMIT UNIT REQUIREMENTS

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-66-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #S-33.

## PERMIT UNIT REQUIREMENTS

---

1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-67-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #T-38.

## PERMIT UNIT REQUIREMENTS

---

1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-68-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #36.

## **PERMIT UNIT REQUIREMENTS**

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-69-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK. TANK ID: #36E.

## PERMIT UNIT REQUIREMENTS

---

1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-70-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

500 BBL (21,000 GALLON) #40 CRUDE OIL STORAGE TANK, FIXED ROOF, DIAMETER 15.4 FT, HEIGHT 16.1 FT.

## PERMIT UNIT REQUIREMENTS

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1. This tank shall only store crude oil with a true vapor pressure (TVP) of 1.5 psia or less. [ ]
2. Monthly records of average daily throughput of crude oil shall be maintained and made available to the District upon request. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-71-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

9,450 GALLON OPEN ROOF CRUDE OIL STORAGE TANK. TANK ID: #94R.

## PERMIT UNIT REQUIREMENTS

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1. The tank shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 4623]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-72-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

VESSEL #301, FWKO WITH DIMENSIONS 60 FT DIAM X 10 FT HIGH, USED TO SEPARATE PRODUCED OIL AND WATER AND PRESSURE RELIEF VENT TO VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

- 
1. Uncontrolled, fixed-roof storage tanks of 471 barrels or greater in capacity shall only store crude oil with a true vapor pressure of 1.5 psia or less. [District Rule 4623], [Federally Enforceable Through Title V]
  2. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District NSR Rule and Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
  3. This unit does not store organic materials which are liquid at standard conditions and which are used as solvers, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-73-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

VESSEL #302, FWKO WITH DIMENSIONS 60 FT DIAM X 10 FT HIGH, USED TO SEPARATE PRODUCED OIL AND WATER AND PRESSURE RELIEF VENT TO VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

- 
1. Uncontrolled, fixed-roof storage tanks of 471 barrels or greater in capacity shall only store crude oil with a true vapor pressure of 1.5 psia or less. [District Rule 4623], [Federally Enforceable Through Title V]
  2. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District NSR Rule and Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
  3. This unit does not store organic materials which are liquid at standard conditions and which are used as solvers, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-74-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-1, 500 BBL BAKER TANK USED TO STORE BRINE OR OIL AND WATER FROM OIL PRODUCTION.

## **PERMIT UNIT REQUIREMENTS**

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1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
2. Monthly records of average daily throughput shall be maintained. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. The operator shall keep accurate records of types, storage temperature and TVP of liquids stored to verify continued exemption from District Rule 4623 (amended 12/17/92). [District Rule 4623, Section 6.1], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-75-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-101, 10,000 BBL (420,000 GAL) WASH TANK (LUBE SIDE). DIAMETER - 55 FEET. COLOR - TAN/BEIGE.

## **PERMIT UNIT REQUIREMENTS**

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1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
2. Monthly records of average daily throughput shall be maintained. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. The operator shall keep accurate records of types, storage temperature and TVP of liquids stored to verify continued exemption from District Rule 4623 (amended 12/17/92). [District Rule 4623, Section 6.1], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-76-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-102, 10,000 BBL (420,000 GAL) WASH TANK (REFINED SIDE). DIAMETER - 55 FEET. COLOR - TAN/BEIGE.

## **PERMIT UNIT REQUIREMENTS**

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1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
2. Monthly records of average daily throughput shall be maintained. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. The operator shall keep accurate records of types, storage temperature and TVP of liquids stored to verify continued exemption from District Rule 4623 (amended 12/17/92). [District Rule 4623, Section 6.1], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-77-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-103, 3,000 BBL (126,000 GAL) STOCK TANK (LUBE SIDE). DIAMETER - 29.7 FEET. COLOR - TAN/BEIGE.

## **PERMIT UNIT REQUIREMENTS**

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1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
2. Monthly records of average daily throughput shall be maintained. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. The operator shall keep accurate records of types, storage temperature and TVP of liquids stored to verify continued exemption from District Rule 4623 (amended 12/17/92). [District Rule 4623, Section 6.1], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-78-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-104, 3000 BBL (126,000 GAL) STOCK TANK (REFINED SIDE). DIAMETER - 29.7 FEET. COLOR - TAN/BEIGE.

## **PERMIT UNIT REQUIREMENTS**

---

1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
2. Monthly records of average daily throughput shall be maintained. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. The operator shall keep accurate records of types, storage temperature and TVP of liquids stored to verify continued exemption from District Rule 4623 (amended 12/17/92). [District Rule 4623, Section 6.1], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-79-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-316, 10,000 BBL (420,000 GALLON) STOCK TANK (ZONE 1) AND PRESSURE RELIEF VENT TO VAPOR RECOVERY SYSTEM LISTED ON C-1121-45. DIAMETER - 55 FEET. COLOR - TAN/BEIGE.

## **PERMIT UNIT REQUIREMENTS**

- 
1. Monthly records of average daily throughput shall be maintained. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  2. The vapor recovery system shall be maintained to achieve at least 99% control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a gas-tight cover which shall be closed at all times except during gauging or sampling. Gas-tight shall be defined as emitting no more than 10,000 ppm of methane measured at a distance of one centimeter from the potential source with an instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this limit shall be considered a leak. [District NSR Rule and District Rule 4623, 5.3.2], [Federally Enforceable Through Title V]
  4. All piping, valves and fittings shall be constructed and maintained in a gas-tight condition. Gas-tight shall be defined as emitting no more than 10,000 ppm of methane measured at a distance of one centimeter from the potential source with an instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this limit shall be considered a leak. [District NSR Rule and District Rule 4623, 5.3.3], [Federally Enforceable Through Title V]
  5. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-80-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,000 BBL (420,000 GAL) #T-317, STOCK TANK (WET OIL). DIAMETER - 47 FEET. COLOR - TAN/BEIGE.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput shall be kept and made available to the District upon request. [ ]
2. Any changes to equipment or processing requires prior written consent from the District. [ ]
3. Any tank gauging or sampling device shall be equipped with a gas-tight cover which shall be closed at all times except during gauging or sampling. [ ]
4. All piping, valves and fittings shall be constructed and maintained in a gas-tight condition. [ ]
5. The vapor recovery system shall be maintained to achieve at least 99% control efficiency. [ ]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-81-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,000 BBL (420,000 GAL) #T-318, STOCK TANK (ETCHEGOIN + ZONE 1). DIAMETER - 47 FEET. COLOR - TAN/BEIGE.

## PERMIT UNIT REQUIREMENTS

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1. Monthly records of average daily throughput shall be kept and made available to the District upon request. [ ]
2. Any changes to equipment or processing requires prior written consent from the District. [ ]
3. Any tank gauging or sampling device shall be equipped with a gas-tight cover which shall be closed at all times except during gauging or sampling. [ ]
4. All piping, valves and fittings shall be constructed and maintained in a gas-tight condition. [ ]
5. The vapor recovery system shall be maintained to achieve at least 99% control efficiency. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-82-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-320, SKIM TANK WITH DIMENSIONS 32 FT DIAM X 20 FT HIGH, 2800 BBL CAPACITY VENTED TO THE TANK VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

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1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Oil throughput of this tank shall not exceed 140 barrels per day. [District NSR Rule and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  6. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-83-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-321, SURGE TANK WITH DIMENSIONS 32 FT OD X 20 FT HIGH, 2800 BBL CAPACITY VENTED TO THE TANK VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

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1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Oil throughput of this tank shall not exceed 60 barrels per day. [District NSR Rule and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  6. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-84-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-323, DRAIN TANK WITH DIMENSIONS 13.5 FT DIAM X 10 FT HIGH, CAPACITY OF 250 BBL VENTED TO THE TANK VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

- 
1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Oil throughput of this tank shall not exceed 250 barrels per day. [District NSR Rule and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  6. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-85-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-324, DRAIN TANK WITH DIMENSIONS 13'OD X 10'H, 250 BBL CAPACITY VENTED TO THE TANK VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

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1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Oil throughput of this tank shall not exceed 250 barrels per day. [District NSR Rule and Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
  4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  6. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-86-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

PRESSURE RELIEF KNOCKOUT VESSEL #V-350 VENTED TO THE EXISTING TANK VAPOR RECOVERY SYSTEM.

## **PERMIT UNIT REQUIREMENTS**

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1. All seals and vapor control lines in the piping or processing equipment shall be kept in a leak-free condition. [ ]
2. All recovered vapors shall be sent to steam generators for incineration. [ ]
3. Comply with all conditions listed on PTO #C-1121-40-0. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-87-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-322, DISPOSAL TANK WITH A 400 BBL CAPACITY VENTED TO A VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.

## **PERMIT UNIT REQUIREMENTS**

- 
1. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Oil throughput of this tank shall not exceed 60 barrels per day. [District NSR Rule and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  6. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-88-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-400, 3,000 BBL WATER CLARIFIER TANK SERVED BY TANK VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.  
24'H X 30'8"D.

## **PERMIT UNIT REQUIREMENTS**

- 
1. Only clean produced water shall be stored in this tank. [District NSR Rule and District Rule 4623], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  4. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-89-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-600, 5,000 BBL FILTERED WATER TANK SERVED BY TANK VAPOR RECOVERY SYSTEM LISTED ON C-1121-45.  
24'H X 38'8"D.

## **PERMIT UNIT REQUIREMENTS**

- 
1. Only clean produced water shall be stored in this tank. [District NSR Rule and District Rule 4623], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  4. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-90-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-810, 5,000 BBL SOFT WATER TANK SERVED BY TANK VAPOR RECOVERY SYSTEM LISTED ON C-1121-45. 24'H X 38'8"D.

## **PERMIT UNIT REQUIREMENTS**

- 
1. Only clean produced water shall be stored in this tank. [District NSR Rule and District Rule 4623], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  4. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-91-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#V-200, WATER CLARIFIER VESSEL SERVED BY TANK VAPOR RECOVERY SYSTEM LISTED ON C-1121-45. 10'6" DIAM X 40' S/S.

## **PERMIT UNIT REQUIREMENTS**

- 
1. Only clean produced water shall be stored in this tank. [District NSR Rule and District Rule 4623], [Federally Enforceable Through Title V]
  2. All seals and vapor control lines shall be kept in a leak-free condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  4. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-93-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

20 UNCONTROLLED CYCLIC/STEAM DRIVE WELLS.

## PERMIT UNIT REQUIREMENTS

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1. Label each uncontrolled steam drive well for identification. [District Rule 1070], [Federally Enforceable Through Title V]
2. The wells shall be located more than 1000 feet from an existing well vent vapor control system. [District Rule 4401], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-95-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

22.3 MMBTU/HR NATIONAL TANK STEAM GENERATOR, SG-54, WITH ONE NORTH AMERICAN FLAME KING BURNER AND OXYGEN CONTROLLER.

## **PERMIT UNIT REQUIREMENTS**

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1. This equipment shall not be operated for any reason unit necessary retrofits are made to comply with the applicable requirements of District Rule 4305. [District Rule 2201]
  2. No modification to this unit shall be performed without an Authority to Construct for than modification(s), except for changes specified in condition 3 below. [District Rule 2201]
  3. The natural gas line shall be physically disconnected and the fuel oil tank shall be empty. [District Rule 2201]
  4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
  5. Emissions from this unit shall not exceed 30 ppm NO<sub>x</sub> (0.036 lb-NO<sub>x</sub>/MMBtu) or 400 ppm CO. [District Rule 4305]
  6. Emissions shall not exceed the following limits: 0.064 lb PM<sub>10</sub>/MMBtu, 0.722 lb SO<sub>x</sub>/MMBtu, or 0.004 lb VOC/MMBtu. [District NSR Rule]
  7. A source test to demonstrate compliance with the indicated emissions limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 2201]
  8. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  9. Fuel oil usage shall not exceed 3,552 gal/day nor 1,300,000 gal/yr. [District NSR Rule]
  10. Sulfur content of oil shall not exceed 0.80% by weight. [District NSR Rule]
  11. A record of monthly fuel consumption shall be maintained, retained on the premises for a period of at least two years and made available for District inspection upon request. [District Rule 1070]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-98-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR STRUTHER WELLS STEAM GENERATOR, SG 62, WITH ONE NORTH AMERICAN 6131G625CR LO-NOX BURNER AND THERMOX OXYGEN CONTROLLER.

## **PERMIT UNIT REQUIREMENTS**

1. This equipment shall not be operated for any reason until necessary retrofits are made to comply with the applicable requirements of District Rule 4305. [District Rule 2201]
2. No modification to this unit shall be performed without an Authority to Construct for than modification(s), except for changes specified in condition 3 below. [District Rule 2201]
3. The natural gas line shall be physically disconnected and the fuel oil tank shall be empty. [District Rule 2201]
4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
6. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
7. Operation shall be on natural gas except during natural gas curtailment or testing. [ ]
8. Operation using fuel oil, due to natural gas curtailment, shall not exceed 10,000 gal/day nor 336 cumulative hours of operation per calendar year. [ ]
9. Operation using fuel oil, for equipment testing, shall not exceed 10,000 gal/day nor 48 cumulative hours of operation per calendar year. [ ]
10. Sulfur content of oil shall not exceed 0.80% by weight. [ ]
11. Emissions from this unit when fired on natural gas shall not exceed 30 ppm NOx (0.036 lb-NOx/MMBtu) or 400 ppm CO @ 3% O<sub>2</sub>. [District Rule 4305]
12. Emissions from this unit when fired on natural gas shall not exceed the following limits (lb/MMBtu): PM<sub>10</sub> - 0.072, SO<sub>x</sub> - 0.816, or VOC - 0.004. [District Rule 2201] [ ]
13. Emissions from this unit when fired on fuel oil shall not exceed 40 ppm NOx (0.052 lb-NOx/MMBtu) or 400 ppm CO @ 3% O<sub>2</sub>. [District Rule 4305]
14. Emissions from this unit when fired on fuel oil shall not exceed the following limits (lb/MMBtu): PM<sub>10</sub> - 0.072, SO<sub>x</sub> - 0.816, or VOC - 0.004. [District Rule 2201] [ ]
15. A source test to demonstrate compliance with the indicated emissions limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 2201]
16. Records shall be maintained of: monthly fuel consumption; and of cumulative annual hours of operation on fuel oil during natural gas curtailment and during testing. [ ]
17. Records shall be maintained for two calendar years and shall be made available to the APCO upon request. [ ]
18. Source testing to demonstrate compliance with NOx and CO limits, while firing on natural gas, shall be conducted on an annual basis. [ ]
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
20. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-100-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

3.0 MMBTU/HR TRICO-SUPERIOR HEATER TREATER, HT-658, WITH 512142H6A4OUV OIL BURNER

## **PERMIT UNIT REQUIREMENTS**

1. The total heat input shall not exceed 30 billion Btu per calendar year. [District NSR Rule], [Federally Enforceable Through Title V]
2. The sulfur content of fuel oil shall not exceed 0.80% by weight. [District NSR Rule and PSD 4-4-8, SJ77-45, condition IX.B], [Federally Enforceable Through Title V]
3. When fired on natural gas, emissions shall not exceed any of the following: 0.1 lb-NOx/MMBtu calculated as NO<sub>2</sub>; 0.084 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> or 0.00286 lb-SOx/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
4. When firing on fuel oil, emissions shall not exceed any of the following: 0.4 lb-NOx/MMBtu calculated as NO<sub>2</sub>; 0.03 lb-CO/MMBtu; 0.004 lb-VOC/MMBtu; 0.074 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> or 0.83 lb-SOx/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2, 4305, 5.1, 5.3 and PSD 4-4-8, SJ77-45, condition IX.B], [Federally Enforceable Through Title V]
5. The following test method shall be used for fuel oil sulfur content - ASTM D4294. [District Rule 1070], [Federally Enforceable Through Title V]
6. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
7. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]



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14. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
15. For residual and crude oil fired units, Nitrogen oxide (NO<sub>x</sub>) emission compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NO<sub>x</sub> emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2, 5.3 and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
16. If the unit is fired on noncertified residual or crude oil and compliance with NO<sub>x</sub> emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-101-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

4.0 MMBTU/HR HYDROTEK HEATER TREATER, HT-804, WITH 512142H6A4OUV OIL BURNER

## **PERMIT UNIT REQUIREMENTS**

1. The total heat input shall not exceed 30 billion Btu per calendar year. [District NSR Rule], [Federally Enforceable Through Title V]
2. The sulfur content of fuel oil shall not exceed 0.80% by weight. [District NSR Rule and PSD 4-4-8, SJ77-45, condition IX.B], [Federally Enforceable Through Title V]
3. When fired on natural gas, emissions shall not exceed any of the following: 0.1 lb-NOx/MMBtu calculated as NO<sub>2</sub> @ 3% O<sub>2</sub>; 0.084 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> or 0.00286 lb-SOx/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
4. When firing on fuel oil, emissions shall not exceed any of the following: 0.38 lb-NOx/MMBtu calculated as NO<sub>2</sub>; 0.03 lb-CO/MMBtu; 0.004 lb-VOC/MMBtu; 0.074 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> or 0.83 lb-SOx/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2, 4305, 5.1, 5.3 and PSD 4-4-8, SJ77-45, condition IX.B], [Federally Enforceable Through Title V]
5. The following test method shall be used for fuel oil sulfur content - ASTM D4294. [District Rule 1070], [Federally Enforceable Through Title V]
6. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
7. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]

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14. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
15. For residual and crude oil fired units, Nitrogen oxide (NOx) emission compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NOx emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2, 5.3 and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
16. If the unit is fired on noncertified residual or crude oil and compliance with NOx emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Annual performance tests for NOx and SO2 must be conducted and reported in accordance with the test methods set for the in 40 CFR 60, Part 60.8 and Appendix A. For NOx performance test shall be conducted using test methods EPA 1 - 4 and 7. For SOx performance test shall be conducted using test methods EPA 1 - 4 and 8. [PSD 4-4-8, SJ77-45 condition IX.H.1 and IX.H.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-102-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

22.3 MMBTU/HR STRUTHER WELLS OH-18 STEAM GENERATOR, SG 53, WITH ONE NORTH AMERICAN OIL BURNER AND OXYGEN CONTROLLER.

**PERMIT UNIT REQUIREMENTS**

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1. This equipment shall not be operated for any reason unit necessary retrofits are made to comply with the applicable requirements of District Rule 4305. [District Rule 2201]
  2. No modification to this unit shall be performed without an Authority to Construct for than modification(s), except for changes specified in condition 3 below. [District Rule 2201]
  3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
  4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  5. The natural gas line shall be physically disconnected and the fuel oil tank shall be empty. [District Rule 2201]
  6. Fuel oil usage shall not exceed 3552 gal/day nor 1,300,000 gal/yr. [District NSR Rule] [ ]
  7. Sulfur content of fuel oil shall not exceed 0.80% by weight. [District NSR Rule] [ ]
  8. Natural gas consumption shall not exceed 510,000 cubic feet per day nor 186,000,000 cubic feet per year. [District NSR Rule] [ ]
  9. Total fuel consumption shall not exceed 195,000 MMBtu/yr. [District NSR Rule] [ ]
  10. Emissions from this unit shall not exceed 30 ppm NO<sub>x</sub> (0.036 lb-NO<sub>x</sub>/MMBtu) or 400 ppm CO @ 3% O<sub>2</sub>. [District Rule 4305]
  11. Emissions shall not exceed the following limits: 0.064 lb PM<sub>10</sub>/MMBtu, 0.722 lb SO<sub>x</sub>/MMBtu, or 0.004 lb VOC/MMBtu. [District NSR Rule] [ ]
  12. A source test to demonstrate compliance with the indicated emissions limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 2201]
  13. A record of monthly fuel consumption shall be maintained, retained on the premises for a period of at least two years and made available for District inspection upon request. [District Rule 1070] [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-104-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

22.3 MMBTU/HR NATIONAL TANK STEAM GENERATOR, SG-55, WITH ONE NORTH AMERICAN OIL BURNER AND OXYGEN CONTROLLER.

## **PERMIT UNIT REQUIREMENTS**

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1. This equipment shall not be operated for any reason unit necessary retrofits are made to comply with the applicable requirements of District Rule 4305. [District Rule 2201]
  2. No modification to this unit shall be performed without an Authority to Construct for than modification(s), except for changes specified in condition 3 below. [District Rule 2201]
  3. The natural gas line shall be physically disconnected and the fuel oil tank shall be empty. [District Rule 2201]
  4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  5. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
  6. Fuel oil usage shall not exceed 3,552 gal/day nor 1,300,000 gal/yr. [District NSR Rule] [ ]
  7. Sulfur content of fuel oil shall not exceed 0.80% by weight. [District NSR Rule] [ ]
  8. Natural gas consumption shall not exceed 510,000 cubic feet per day nor 186,000,000 cubic feet per year. [District NSR Rule] [ ]
  9. Total fuel consumption shall not exceed 195,000 MMBtu/yr. [District NSR Rule] [ ]
  10. Emissions from this unit shall not exceed 30 ppm NOx (0.036 lb-NOx/MMBtu) or 400 ppm CO. [District Rule 4305]
  11. Emissions shall not exceed the following limits: 0.064 lb PM10/MMBtu, 0.722 lb SOx/MMBtu, or 0.004 lb VOC/MMBtu. [District NSR Rule] [ ]
  12. A source test to demonstrate compliance with the indicated emissions limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 2201]
  13. A record of monthly fuel consumption shall be maintained, retained on the premises for a period of at least two years and made available for District inspection upon request. [District Rule 1070] [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-105-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

4.0 MMBTU/HR TRICO-SUPERIOR HEATER TREATER, HT-659, WITH 512142H6A4OUV BURNER

## **PERMIT UNIT REQUIREMENTS**

1. The total heat input shall not exceed 30 billion Btu per calendar year. [District NSR Rule], [Federally Enforceable Through Title V]
2. The sulfur content of fuel oil shall not exceed 0.80% by weight. [District NSR Rule and PSD 4-4-8, SJ77-45, condition IX.B], [Federally Enforceable Through Title V]
3. When fired on natural gas, emissions shall not exceed any of the following: 0.1 lb-NOx/MMBtu calculated as NO<sub>2</sub>; 0.084 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> or 0.00286 lb-SOx/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2, 4305, 5.1, 5.3 and PSD 4-4-8, SJ77-45, condition IX.B], [Federally Enforceable Through Title V]
4. When firing on fuel oil, emissions shall not exceed any of the following: 0.4 lb-NOx/MMBtu calculated as NO<sub>2</sub>; 0.03 lb-CO/MMBtu; 0.004 lb-VOC/MMBtu; 0.074 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> or 0.83 lb-SOx/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
5. The following test method shall be used for fuel oil sulfur content - ASTM D4294. [District Rule 1070], [Federally Enforceable Through Title V]
6. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
7. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. If the unit is fired on noncertified gaseous fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the unit is fired on noncertified liquid fuel and compliance with SOx emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]

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14. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
15. For residual and crude oil fired units, Nitrogen oxide (NOx) emission compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NOx emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2, 5.3 and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
16. If the unit is fired on noncertified residual or crude oil and compliance with NOx emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-106-5

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

3.5 MMBTU/HR HYDROTEK HEATER TREATER, HT-808, WITH 512142H6A4OUV OIL BURNER

## **PERMIT UNIT REQUIREMENTS**

1. The total heat input shall not exceed 30 billion Btu per calendar year. [District NSR Rule], [Federally Enforceable Through Title V]
2. The sulfur content of fuel oil shall not exceed 0.80% by weight. [District NSR Rule and PSD 4-4-8, SJ77-45, condition IX.B], [Federally Enforceable Through Title V]
3. When fired on natural gas, emissions shall not exceed any of the following: 0.1 lb-NOx/MMBtu calculated as NO<sub>2</sub>; 0.084 lb-CO/MMBtu; 0.0055 lb-VOC/MMBtu; 0.0076 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> or 0.00286 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2 and 4305, 5.1, 5.3], [Federally Enforceable Through Title V]
4. When firing on fuel oil, emissions shall not exceed any of the following: 0.38 lb-NOx/MMBtu calculated as NO<sub>2</sub>; 0.03 lb-CO/MMBtu; 0.004 lb-VOC/MMBtu; 0.074 lb-PM<sub>10</sub>/MMBtu calculated at 12% CO<sub>2</sub> or 0.83 lb-SO<sub>x</sub>/MMBtu calculated as SO<sub>2</sub>. [District NSR Rule, Rule 4201, 3.1, Rule 4301, 5.1, 5.2, 4305, 5.1, 5.3 and PSD 4-4-8, SJ77-45, condition IX.B], [Federally Enforceable Through Title V]
5. The following test method shall be used for fuel oil sulfur content - ASTM D4294. [District Rule 1070], [Federally Enforceable Through Title V]
6. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
7. Copies of all fuel invoices showing quantity and delivery points of gas delivered and copies of quality terms of gas delivery contracts used to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6 or ARB Method 100; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculate emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the unit is fired on noncertified liquid fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1], [Federally Enforceable Through Title V]



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14. The concentration of sulfur compounds in the exhaust from this unit shall demonstrate compliance using one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [District Rule 2520, 9.4.2, 4301, 5.2.1 and Rule 4801, 3.1], [Federally Enforceable Through Title V]
15. For residual and crude oil fired units, Nitrogen oxide (NO<sub>x</sub>) emission compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NO<sub>x</sub> emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2, 5.3 and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
16. If the unit is fired on noncertified residual or crude oil and compliance with NO<sub>x</sub> emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Annual performance tests for NO<sub>x</sub> and SO<sub>2</sub> must be conducted and reported in accordance with the test methods set for the in 40 CFR 60, Part 60.8 and Appendix A. For NO<sub>x</sub> performance test shall be conducted using test methods EPA 1 - 4 and 7. For SO<sub>x</sub> performance test shall be conducted using test methods EPA 1 - 4 and 8. [PSD 4-4-8, SJ77-45 condition IX.H.1 and IX.H.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-109-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR STEAM GENERATOR, SG 124, WITH ONE NORTH AMERICAN 5131G625LR LO-NOX BURNER AND OXYGEN CONTROLLER.

## **PERMIT UNIT REQUIREMENTS**

1. This equipment shall not be operated for any reason unit necessary retrofits are made to comply with the applicable requirements of District Rule 4305. [District Rule 2201]
2. No modification to this unit shall be performed without an Authority to Construct for than modification(s), except for changes specified in condition 3 below. [District Rule 2201]
3. The natural gas line shall be physically disconnected and the fuel oil tank shall be empty. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102] [ ]
5. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] [ ]
6. Operation shall be on natural gas only. [District NSR Rule] [ ]
7. Natural gas consumption shall not exceed 1,140,000 cubic feet per day or 417,000,000 cubic feet per year. [District NSR Rule] [ ]
8. Emissions from this unit shall not exceed 30 ppm NOx (0.036 lb-NOx/MMBtu) or 400 ppm CO @ 3% O2. [District Rule 4305]
9. Emissions shall not exceed the following limits (lb/MMBtu): PM10 - 0.005, SOx - 0.001, or VOC - 0.003. [District NSR Rule] [ ]
10. A record of monthly fuel consumption shall be maintained, retained on the premises for a period of at least two years and made available for District inspection upon request.[District Rule 1070] [ ]
11. A source test to demonstrate compliance with the NOx and CO emissions limits shall be performed within 60 days of recommencing operation of this unit and on an annual basis thereafter. [District Rule 2201]
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-114-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

MS-714, VAPOR RECOVERY PLANT, FOR WELL CASING HEAD HYDROCARBON VAPOR RECOVERY, UTILIZING THE FOLLOWING EQUIPMENT: 11V1 LIQUID SCRUBBER; 11V2 CONDENSATE KO DRUM; 11P1 CONDENSATE PUMP; FIN FAN CONDENSER SERVING 184 WELLS.

## **PERMIT UNIT REQUIREMENTS**

1. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (Amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
2. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs and which well casing vents are shut-in. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
3. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. This requirement does not apply to cyclic wells located on contiguous and adjacent oil production properties with less than 10 cyclic wells owned by or under the control of a company. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
4. Total number of leaks from the vapor collection and control system, including condensate handling, shall not exceed the number as allowed by Rule 4401 (as amended January 15, 1998) at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
5. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
6. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
7. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
8. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.3.3], [Federally Enforceable Through Title V]
9. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. the crude oil production wells associated with this unit do not have production enhanced by in-situ combustion. Therefore, the requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Annual performance tests for hydrocarbon must be conducted and reported in accordance with the test methods set for the in 40 CFR 60, Part 60.8 and Appendix A. Performance tests for hydrocarbon shall be conducted using procedures approved in advance by the EPA in writing. The EPA and APCO must be notified in writing at least 30 day prior to conduction such tests. [PSD 4-4-8, SJ77-45 condition IX.H.1 and IX.H.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-115-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

MS-716, VAPOR RECOVERY PLANT, FOR WELL CASING HEAD HYDROCARBON VAPOR RECOVERY, UTILIZING THE FOLLOWING EQUIPMENT: 11V1 LIQUID SCRUBBER; 10E1 GAS WATER COOLER; 10V2 CONDENSATE KO DRUM; 10P1 CONDENSATE PUMP SERVING 46 WELLS.

## **PERMIT UNIT REQUIREMENTS**

1. Vapor recovery system shall operate at a collection efficiency of 99 percent. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
2. A record of all wells serviced by this vapor recovery system and which well casing vents are shut-in shall be maintained, retained on the premises. [District Rule 1070 and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
4. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 2520, 9.4], [Federally Enforceable Through Title V]
5. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resources Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the annual testing requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The control efficiency of the vapor collection and control system used to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors, or Air Pollution (AP)-42 emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. VOC content shall be determined using ASTM Method E168-67, E169-63, or E260-73 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rules 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: District Rule 1081, County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Annual performance tests for hydrocarbon must be conducted and reported in accordance with the test methods set for the in 40 CFR 60, Part 60.8 and Appendix A. Performance tests for hydrocarbon shall be conducted using procedures approved in advance by the EPA in writing. The EPA and APCO must be notified in writing at least 30 day prior to conduction such tests. [PSD 4-4-8, SJ77-45 condition IX.H.1 and IX.H.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-116-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

MS-717, VAPOR RECOVERY PLANT, FOR WELL CASING HEAD HYDROCARBON VAPOR RECOVERY, UTILIZING THE FOLLOWING EQUIPMENT: 12V1 LIQUID SCRUBBER; 12E1 GAS AIR COOLER; 12V2 CONDENSATE KO DRUM; 12P1 CONDENSATE PUMP SERVING 190 WELLS.

## **PERMIT UNIT REQUIREMENTS**

1. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (Amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
2. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs and which well casing vents are shut-in. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
3. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. This requirement does not apply to cyclic wells located on contiguous and adjacent oil production properties with less than 10 cyclic wells owned by or under the control of a company. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
4. Total number of leaks from the vapor collection and control system, including condensate handling, shall not exceed the number as allowed by Rule 4401 (as amended January 15, 1998) at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
5. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
6. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
7. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
8. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.3.3], [Federally Enforceable Through Title V]
9. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. the crude oil production wells associated with this unit do not have production enhanced by in-situ combustion. Therefore, the requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Annual performance tests for hydrocarbon must be conducted and reported in accordance with the test methods set for the in 40 CFR 60, Part 60.8 and Appendix A. Performance tests for hydrocarbon shall be conducted using procedures approved in advance by the EPA in writing. The EPA and APCO must be notified in writing at least 30 day prior to conduction such tests. [PSD 4-4-8, SJ77-45 condition IX.H.1 and IX.H.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-117-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 30', HEIGHT 8'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-118-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

84,000 GALLON (2000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 30', HEIGHT 16'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-119-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

126,000 GALLON (3000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 30', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]



## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-120-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

126,000 GALLON (3000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 30', HEIGHT 24'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-121-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON (500 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 8'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-122-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON (500 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 8'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-123-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-14464, 210,000 GALLON (5000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 39', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-124-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-14465, 210,000 GALLON (5000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 39', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-125-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-14660, 84,000 GALLON (2000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 30', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-126-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

84,000 GALLON (2000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK (ID #2GC40) WITH DIAMETER 30', HEIGHT 16'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-127-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

84,000 GALLON (2000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK (ID# 2GC53) WITH DIAMETER 30', HEIGHT 16'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-128-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-701, 10,500 GALLON (250 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 10', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-129-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-F01, 10,500 GALLON (250 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 15', HEIGHT 8'.

## PERMIT UNIT REQUIREMENTS

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1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. The requirements of SJVUAPCD 4623 (December 17, 1992), 4661 (Amended December 17, 1992), and Rule 4801 (Amended December 17, 1992) do not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. The requirements of 40 CFR 60 Subpart K, Ka, and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. The requirements of 40 CFR 63 Subpart CC, F and I, do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-130-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON (725 BBL) FIXED ROOF CRUDE OIL STORAGE TANK (ID# F02) WITH DIAMETER 18', HEIGHT 16'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-131-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-F03, 31,500 GALLON (750 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 15', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-132-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON (500 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 8'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-133-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-1GC56, 42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 22', HEIGHT 12'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-134-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-EM-WASH-1, 63,000 GALLON (1500 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 20', HEIGHT 18'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-135-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-S7TT1, 10,500 GALLONS (250 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 16', HEIGHT 8'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-136-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

8,400 GALLON (200 BBL) HORIZONTAL CRUDE OIL STORAGE TANK WITH 15 FT LENGTH, 6 FT DIAMETER.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-137-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-14385, 42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-138-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-14386, 42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## PERMIT UNIT REQUIREMENTS

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1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-139-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-140-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-1432, 42,000 GALLON (1,000 BBL) FIXED ROOF CRUDE OIL TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-141-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-701, 31,500 GALLONS (750 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 20', HEIGHT 24'.

## PERMIT UNIT REQUIREMENTS

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1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. The requirements of SJVUAPCD 4623 (December 17, 1992), 4661 (Amended December 17, 1992), and Rule 4801 (Amended December 17, 1992) do not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. The requirements of 40 CFR 60 Subpart K, Ka, and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. The requirements of 40 CFR 63 Subpart CC, F and I, do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-142-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-9729, 42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-143-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-9731, 42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-144-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-F01, 31,500 GALLON (750 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 16', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-145-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-PRTT1, 10,500 GALLON (250 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 15', HEIGHT 8'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-146-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON (500 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 16', HEIGHT 16'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-147-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

21,000 GALLON (500 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 16', HEIGHT 16'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-148-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

84,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 30', HEIGHT 8'.

## PERMIT UNIT REQUIREMENTS

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1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. The requirements of SJVUAPCD 4623 (December 17, 1992), 4661 (Amended December 17, 1992), and Rule 4801 (Amended December 17, 1992) do not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. The requirements of 40 CFR 60 Subpart K, Ka, and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. The requirements of 40 CFR 63 Subpart CC, F and I, do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-149-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-14466, 210,000 GALLON (5000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 39', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-150-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-14467, 210,000 GALLON (5000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 39', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-151-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

#T-CMCL1, 210,000 GALLON (5000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 39', HEIGHT 24'.

## PERMIT UNIT REQUIREMENTS

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1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. The requirements of SJVUAPCD 4623 (December 17, 1992), 4661 (Amended December 17, 1992), and Rule 4801 (Amended December 17, 1992) do not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. The requirements of 40 CFR 60 Subpart K, Ka, and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. The requirements of 40 CFR 63 Subpart CC, F and I, do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-152-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

84,000 GALLON (2000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK (ID# CMF1) WITH DIAMETER 30', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-153-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

84,000 GALLON (2000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK (ID# CMF2) WITH DIAMETER 30', HEIGHT 16'.

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-154-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

# T-T6, 10,500 GALLON (250 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 10', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-155-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-156-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

8,400 GALLON (100 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 10', HEIGHT 6'.

## **PERMIT UNIT REQUIREMENTS**

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1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
  2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
  3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
  4. The requirements of SJVUAPCD 4623 (December 17, 1992), 4661 (Amended December 17, 1992), and Rule 4801 (Amended December 17, 1992) do not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  5. The requirements of 40 CFR 60 Subpart K, Ka, and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  6. The requirements of 40 CFR 63 Subpart CC, F and I, do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  7. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-157-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

8,400 GALLON (200 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 15', HEIGHT 8'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-158-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

4,200 GALLON (100 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 9', HEIGHT 8'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-159-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

4,200 GALLON (100 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 9', HEIGHT 8'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-160-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

4,200 GALLON (100 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 9', HEIGHT 8'.

## **PERMIT UNIT REQUIREMENTS**

1. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
2. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
3. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
6. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-161-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

12,600 GALLON (300 BBL) FIXED ROOF WASH STORAGE TANK WITH DIAMETER 9', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
2. Records of average daily throughput of crude oil shall be maintained, retained and made available to the District upon request. [District NSR Rule], [Federally Enforceable Through Title V]
3. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-162-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
2. The true vapor pressure of the petroleum liquid stored shall not exceed 1.5 psia. [District Rule 4623, Section 2.0], [Federally Enforceable Through Title V]
3. Records of average daily throughput of crude oil shall be maintained, retained and made available to the District upon request. [District NSR Rule], [Federally Enforceable Through Title V]
4. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
7. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-163-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
2. Records of average daily throughput of crude oil shall be maintained, retained and made available to the District upon request. [District NSR Rule], [Federally Enforceable Through Title V]
3. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-164-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 21', HEIGHT 16'.

## **PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
2. Records of average daily throughput of crude oil shall be maintained, retained and made available to the District upon request. [District NSR Rule], [Federally Enforceable Through Title V]
3. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** C-1121-165-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

10,500 GALLON (250 BBL) FIXED ROOF CRUDE OIL STORAGE TANK (ID# TT1) WITH DIAMETER 15', HEIGHT 8'.

## PERMIT UNIT REQUIREMENTS

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1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
2. Records of average daily throughput of crude oil shall be maintained, retained for at least two years, and made available to the District upon request. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-166-1

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

# T-PZCL1, 210,000 GALLON (5000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK WITH DIAMETER 39', HEIGHT 24'.

## **PERMIT UNIT REQUIREMENTS**

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
2. Records of average daily throughput of crude oil shall be maintained, retained and made available to the District upon request. [District NSR Rule], [Federally Enforceable Through Title V]
3. Operator shall keep a record of liquids stored in each container, storage temperature and the true vapor pressure of liquids stored to verify continued exemption from Rule 4623 (amended 12/17/92). [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determination shall be made annually during the summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
5. As used in this permit, "source or type of petroleum" shall mean petroleum liquid with similar characteristics. The operator shall maintain records of the API gravity of the petroleum liquids stored in this unit to determine which oils are from a common source. [District Rule 2520, Section 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4623 (Amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. This unit does not store organic materials which are liquid at standard conditions and which are used as solvents, viscosity reducers, or cleaning agents. Tank emissions are fugitive emissions not considered to come from a point source. Therefore, the requirements of District Rules 4661 (as amended December 17, 1992) and 4801 (as amended December 17, 1992) do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. This unit commenced construction, modification, or reconstruction before May 19, 1978. Therefore, the requirements of 40 CFR 60 Subpart Ka and Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. The requirements of 40 CFR 63 Subpart F are for HAPs located at a synthetic organic chemical manufacturing industrial facility and do not apply to this source. This tank is located at an oil production facility defined in the standard industrial classification code (SIC) as 2911 and is not subject to the requirements of 40 CFR 63 Subpart CC. HAPs leaks from oil production tanks process are not listed in 40 CFR 63.190 and therefore are not subject to 40 CFR 63 Subpart I. A permit shield is granted from the requirements of 40 CFR 63 Subpart CC, F and I. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623, 2.0 and 2010], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** C-1121-167-0

**EXPIRATION DATE:** 12/31/2006

**EQUIPMENT DESCRIPTION:**

88 UNCONTROLLED CYCLIC CRUDE OIL WELLS LOCATED THROUGHOUT THE COALINGA AREA. \*\* PERMIT  
CANCELLED PER APPLICANT REQUEST ON 12/5/01 BY SR \*\*

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. Emissions of sulfur compounds shall not exceed 0.2% by volume (2000 ppm). [ ]
3. Emissions of VOC shall not exceed 1,118 pounds per day. [ ]
4. Records of average daily throughput of crude oil shall be maintained, retained for at least two years, and made available to the District upon request. [ ]
5. This permit unit shall be in compliance with District Rule 4401 by March 5, 2001. [District Rule 4401, 7.2]



## Initial TV Permit